

# PHASE II SUBSURFACE INVESTIGATION REPORT

Shell Gasoline Station 5696 Stevens Creek Boulevard San Jose, California 95129

January 10, 2017 Partner Project Number: 16-174952.1

Prepared for:

Asset Gas, Inc. and/or Assignee

7969 Engineer Road, Suite 108 San Diego, California 92111





January 10, 2017

Mr. Hunter Oliver Asset Gas, Inc. and/or Assignee 7969 Engineer Road, Suite 108 San Diego, California 92111

Subject:

Phase II Subsurface Investigation Report

**Shell Gas Station** 

5696 Stevens Creek Boulevard San Jose, California 95129

Partner Project Number: 16-174952.1

Dear Mr. Oliver:

Partner Engineering and Science, Inc. (Partner) is pleased to provide the results of the assessment performed on the above-referenced property. The following report describes the field activities, methods, and findings of the Phase II Subsurface Investigation conducted at the above-referenced property.

This assessment was performed utilizing methods and procedures consistent with good commercial or customary practices designed to conform to acceptable industry standards. The independent conclusions represent Partner's best professional judgment based upon existing conditions and the information and data available to us during the course of this assignment.

We appreciate the opportunity to provide these services. If you have any questions concerning this report, or if we can assist you in any other matter, please contact Mr. Mark Lambson at (619) 925-9672.

Sincerely,

Partner Engineering and Science, Inc.

Mr. Brian Kim

**Environmental Scientist** 

Mr. Mark Lambson

Principal

Mr. Joe Mangine, PGALTE

Project Manager

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# 1.0 INTRODUCTION

# 1.1 Purpose

It is Partner's understanding that the subject property will be potentially redeveloped with a new building and up to three subgrade levels for use as a hotel. The purpose of the investigation was to evaluate the remaining impacts of petroleum hydrocarbons and/or volatile organic compounds (VOCs) to soil and/or soil gas as a consequence of a release or releases from the previous and/or current site operations, including the historical and/or current underground storage tanks (USTs). Asset Gas, Inc. and/or Assignee provided project authorization of Partner Proposal Number P16-174952.2.

# 1.2 Limitations

This report presents a summary of work conducted by Partner. The work includes observations of site conditions encountered and the analytical results provided by an independent third party laboratory of samples collected during the course of the project. The number and location of samples were selected to provide the required information. However, it cannot be assumed that the limited available data are representative of subsurface conditions in areas not sampled.

Conclusions and/or recommendations are based on the observations, laboratory analyses, and the governing regulations. Conclusions and/or recommendations beyond those stated and reported herein should not be inferred from this document.

Partner warrants that the environmental consulting services contained herein were accomplished in accordance with generally-accepted practices in the environmental engineering, geology, and hydrogeology fields that existed at the time and location of work. No other warranties are implied or expressed.

#### 1.3 User Reliance

Partner was engaged by Asset Gas, Inc. and/or Assignee (the Addressee), or their authorized representative, to perform this investigation. The engagement agreement specifically states the scope and purpose of the investigation, as well as the contractual obligations and limitations of both parties. This report and the information therein, are for the exclusive use of the Addressee. This report has no other purpose and may not be relied upon, or used, by any other person or entity without the written consent of Partner. Third parties that obtain this report, or the information therein, shall have no rights of recourse or recovery against Partner, its officers, employees, vendors, successors or assigns. Any such unauthorized user shall be responsible to protect, indemnify and hold Partner, the Addressee and their respective officers, employees, vendors, successors and assigns harmless from any and all claims, damages, losses, liabilities, expenses (including reasonable attorneys' fees) and costs attributable to such use. Unauthorized use of this report shall constitute acceptance of, and commitment to, these responsibilities, which shall be irrevocable and shall apply regardless of the cause of action or legal theory pled or asserted.

This report has been completed under specific Terms and Conditions relating to scope, relying parties, limitations of liability, indemnification, dispute resolution, and other factors relevant to any reliance on this



report. Any parties relying on this report do so having accepted the Terms and Conditions for which this report was completed.



# 2.0 SITE BACKGROUND

## 2.1 Site Description

The subject property consists of one parcel of land comprising approximately 0.34 acre located on the southeastern corner of the intersection of Stevens Creek Boulevard and Stern Avenue within a mixed residential and commercial area of Santa Clara County, California. The subject property is currently developed with one gasoline station building with two service bays, four fuel dispenser islands under a single canopy, and two fiberglass gasoline USTs totaling 12,000-gallons; and is occupied by Shell Gasoline station. In addition to the structures, the subject property is improved with asphalt-paved parking areas and associated landscaping.

The subject property is bound by Woodcrest Hotel and IHOP Restaurant to the north across Stevens Creek Boulevard, Suite America to the east, 7-Eleven convenience store to the south, and Sunflower Learning center to the west across Stern Avenue. Refer to Figure 1 for a site plan showing site features and surrounding properties.

# 2.2 Site History

Based on the information provided, the subject property was formerly equipped with one diesel UST (unknown size) and one 280-gallon waste oil UST. An Unauthorized Release Form was filed in 1994 following removal of the diesel UST. The waste oil UST was removed in 1995. Since 1995, several rounds of subsurface investigation, groundwater monitoring, and remediation has occurred at the subject property. Case closure was issued by the Santa Clara County Department of Environmental Health (SCCDEH) on October 1, 2015 confirming the completion of the investigation and cleanup of the reported release in accordance with the requirements of the State Water Resources Control Board (SWRCB) Low-Threat UST Case Closure Policy (LTCP). At the time of closure, residual impacts to soil included total petroleum hydrocarbons as gasoline (TPH-g) up to 8,200 milligrams per kilogram (mg/kg) and benzene up to 36 mg/kg. Residual impacts to groundwater included TPH-g up to 480 micrograms per liter (µg/L), with benzene and methyl tert-butyl ether (MTBE) below laboratory reporting limits (RLs).

# 2.3 Geology and Hydrogeology

Based on a review of the United States Geological Survey (USGS) *Cupertino, California* Quadrangle topographic map, the subject property is situated at an elevation approximately 178 feet above mean sea level, and the local topography is sloping gently to the north-northeast. Refer to Figure 2 for a topographic map of the site vicinity.

The Subject property is situated within the Coastal Ranges physiographic province of the State of California. The Coast Ranges are northwest-trending mountain ranges (2,000 to 4,000, occasionally 6,000 feet elevation above sea level), and valleys. The ranges and valleys trend northwest, subparallel to the San Andreas Fault. Strata dip beneath alluvium of the Great Valley. To the west is the Pacific Ocean. The coastline is uplifted, terraced and wave-cut. The Coast Ranges are composed of thick Mesozoic and Cenozoic sedimentary strata. The northern and southern ranges are separated by a depression containing the San Francisco Bay. The northern Coast Ranges are dominated by irregular, knobby, landslide-topography of the Franciscan Complex. The eastern border is characterized by strike-ridges and valleys in Upper Mesozoic strata. In



several areas, Franciscan rocks are overlain by volcanic cones and flows of the Quien Sabe, Sonoma and Clear Lake volcanic fields. The Coast Ranges are subparallel to the active San Andreas Fault. The San Andreas is more than 600 miles long, extending from Pt. Arena to the Gulf of California. West of the San Andreas is the Salinian Block, a granitic core extending from the southern extremity of the Coast Ranges to the north of the Farallon Islands.

Based on borings advanced during this investigation, the underlying subsurface consists predominantly of clay material from the ground surface to approximately 30 feet below ground surface (bgs). Refer to Appendix A for boring logs from this investigation.

Groundwater was not encountered during this investigation and was not a part of the scope of work. According to the most recent data collected at the subject property in January 2015, groundwater beneath the subject property was first encountered at approximately 105 feet below ground surface (bgs), with flow direction to the north-northeast.



# 3.0 FIELD ACTIVITIES

Refer to Table 1 for a summary of the borings, sampling schedule and laboratory analyses for this investigation. The scope of the Phase II Subsurface Investigation included the advancement of five borings (B1 through B5) for the collection of representative soil and/or soil gas samples.

# 3.1 Preparatory Activities

Prior to the initiation of fieldwork, Partner completed the following activities.

# 3.1.1 Utility Clearance

Partner delineated the work area with white spray paint and notified Underground Service Alert of Northern California (USA North) to clear public utility lines as required by law at least 48 hours prior to drilling activities. USA North issued ticket number W634901247-00W for the project.

In addition, Partner subcontracted with Pacific Coast Locators (PCL) on December 16, 2016 to clear boring locations of utilities. PCL systematically free-traversed each proposed boring location with a Ground Penetrating Radar (GPR)-6551/5IR3000, and a Vivax locator with transmitter; and the equipment readouts were interpreted in real time for evidence of utility lines and/or other subsurface features of potential concern. Boring placement was modified as necessary based on the geophysical survey results to avoid damaging underground features.

# 3.1.2 Health and Safety Plan

Partner reviewed the site-specific Health and Safety Plan with on-site personnel involved in the project prior to the commencement of drilling activities.

# 3.2 Drilling Equipment

On December 21, 2016, Partner subcontracted with Environmental Control Associates, Inc. (ECA) (State of California Water Well Drilling Contractor License Number 695970) to provide and operate drilling equipment. ECA, under the direction of Partner, advanced all borings (B1 through B5) with a truck-mounted GeoProbe Model 5410 direct push rig. Sampling equipment was decontaminated between sample intervals and boring locations to prevent cross-contamination.

# 3.3 Boring Locations

All boring were advanced in the northern portion of the subject property. Borings B1, B2, B3, and B4 were advanced adjacent to the south, northwest, northeast, and east of the on-site USTs, respectively. Boring B5 was advanced in the northeastern portion of the subject property. Refer to Figure 3 for a map indicating boring locations.

# 3.4 Soil Sampling

All borings (B1 through B5) were overlain by asphalt, which was penetrated using a punch bit attachment advanced by the direct-push drill rig.



Soil samples were collected using a four-foot long by two-inch diameter MacroCore sampler with a four-foot long acetate liner, which was advanced by the direct-push drill rig using four-foot long by 1.5-inch diameter drill rods. The sampler was driven into the subsurface to allow undisturbed soil to enter the open MacroCore barrel and retrieved in four-foot intervals to recover the soil-filled liners.

Samples were prepared for laboratory analysis by cutting an approximately six-inch long section of the liner using a hacksaw and capped on either end with Teflon tape and plastic caps. The capped liners were labeled for identification and stored in an iced cooler. The remaining soil in the liner was visually inspected for discoloration, monitored for odors, classified in accordance with the Unified Soil Classification System (USCS), placed in a sealable plastic bag, and field-screened with a photoionization detector (PID) calibrated to isobutylene. None of the collected soil samples appeared to exhibit discoloration or an odor. None of the PID readings suggested the presence of elevated volatile organics concentrations.

Soil samples were collected from each boring at 5, 10, 15, 20, 25, and 30 feet bgs; with the exception of boring B4, which was not advanced nor soil sampled due to difficult drilling conditions.

### 3.5 Soil Gas Probe Construction

Soil gas probes screened at five feet bgs were constructed in new boreholes advanced within five-feet of the soil boreholes. Soil gas boreholes were backfilled with dry, granular bentonite to approximately six inches below the desired sampling depth. A new section of ¼-inch diameter NylaFlow tubing with a new ¼-inch diameter polypropylene filter at the terminal end was inserted into the borehole to the desired sampling depth. One-inch diameter polyvinyl chloride (PVC) casing was used as a guide for the tubing to ensure that the desired sampling depth was achieved. Sand was poured into the boring annulus to form an approximately one-foot long sand pack around the polypropylene filter, at which time the PVC piping was withdrawn. Approximately one foot of dry, granular bentonite was placed atop the sand pack and the remainder of the borehole was backfilled with hydrated bentonite to the ground surface to form a seal. The sampling end of the tubing was fitted with a valve and the probe was labeled for identification.

# 3.6 Soil Gas Sampling Methodology

Soil gas samples were collected in general accordance with the July 2015 Department of Toxic Substances Control (DTSC) and Los Angeles Regional Water Quality Control Board (LARWQCB) "Advisory – Active Soil Gas Investigations."

Soil gas samples were collected using one-liter, stainless-steel, cylindrical SUMMA canisters. The sampling containers were provided by SunStar Laboratories, Inc. (SunStar) a state-certified laboratory (California Department of Public Health Environmental Laboratory Accreditation Program certificate number 2250) in Lake Forest, California, which subjected each canister to a rigorous cleaning process using a combination of dilution, heat, and high vacuum. After cleaning, the canisters were batch certified to be free of target contaminants to a specified reporting limit via gas chromatography/mass spectroscopy prior to delivery.

Partner received the SUMMA canisters evacuated to approximately 30 inches of mercury. The SUMMA canisters were fitted with stainless-steel flow controllers, which SunStar calibrated to maintain constant flow (approximately 0.1 liter per minute) for approximately five to 10 minutes of sampling time.



Each probe was allowed to equilibrate for a minimum of two hours after installation prior to sampling. After equilibration, the sample tubing and sampler screen were purged of ambient air using a separate one-liter SUMMA purge volume canister evacuated to approximately 30 inches of mercury. Tracer gas isopropanol was placed around each probe at the ground surface while sampling to detect ambient air intrusion. The tracer gas was not detected in any sample, indicating that the integrity of the bentonite seal was maintained. Once the one-liter purge volume canisters were filled, the sampling end of the tubing was fitted to the sampling canister and the port valve was opened, causing air to enter the sample container due to the pressure differential. Partner closed the valves after the canister was evacuated to approximately two to sixteen inches of mercury, with pertinent data (e.g., time, canister vacuum) recorded at the start and end of sampling. The SUMMA canisters were labeled for identification and stored away from direct sunlight prior to analysis. Partner successfully connected individual one-liter SUMMA canisters to each sampling point. Soil gas samples were collected from each boring at five feet bgs.

# 3.7 Post-Sampling Activities

Probes were removed from the subsurface and the boreholes were backfilled with hydrated bentonite chips and/or neat cement following sampling activities. Boreholes advanced in improved areas were capped with asphalt patch to match existing ground cover after being backfilled.

No significant amounts of derived wastes were generated during this investigation.



# 4.0 LABORATORY ANALYSIS

# 4.1 Laboratory Analysis

Partner collected 24 soil samples and five soil gas samples on December 21, 2016, which were transported in an iced cooler under proper chain-of-custody protocol to SunStar, for analysis on December 23, 2016. Based on field-screening results, visual observations, and/or olfactory observations, five soil samples were analyzed for carbon chain total petroleum hydrocarbons (TPH-cc) in accordance with EPA Method 8015 and VOCs in accordance with EPA Method 8260; and all soil gas samples (five samples total) were analyzed for VOCs in accordance with EPA Method TO-15. The remaining soil samples were placed on hold at the laboratory.

# 4.2 Laboratory Analytical Results

Laboratory analytical results are included in Appendix B and discussed below.

# 4.2.1 Soil Sample Analytical Results

None of the analyzed soil samples contained detectable concentrations of TPH-cc above the laboratory RLs; with the exception of soil sample B3-25, which contained detectable concentration of total petroleum hydrocarbons as motor oil (TPH-o) exceeding the laboratory RL, at 140 mg/kg.

None of the analyzed soil samples contained detectable concentrations of VOCs above the laboratory RLs.

Refer to Tables 2 and 3 for a summary of the soil sample TPH-cc and VOCs laboratory analysis results, respectively.

# 4.2.2 Soil Gas Sample Analytical Results

Soil gas samples B1-SG5 and B2-SG5 contained detectable concentration of trichloroethylene (TCE) above the laboratory RL, at 770 micrograms per cubic meter ( $\mu$ g/m³) and 1,200  $\mu$ g/m³, respectively. No other VOCs were detected in soil gas samples B1-SG5 or B2-SG5 above the laboratory RLs. Soil gas samples B3-SG5, B4-SG5, and B5-SG5 contained detectable concentrations of one or more of the following VOCs above the laboratory RLs; benzene, toluene, ethylbenzene, xylenes, acetone, carbon disulfide, cyclohexane, bromodichloromethane, heptane, hexane, tetrahydrofuran, 1,2,4-trimethylbenzene, and 2-butanone (methyl ether ketone). The highest detected concentration of benzene was 54  $\mu$ g/m³, toluene was 230  $\mu$ g/m³, ethylbenzene was 9.9  $\mu$ g/m³, xylene was 57  $\mu$ g/m³, acetone was 170  $\mu$ g/m³, bromodichloromethane was 16  $\mu$ g/m³, and MEK was 34  $\mu$ g/m³. No other VOCs were detected in soil gas samples B3-SG5, B4-SG5, or B5-SG5 above the laboratory RLs.

Refer to Table 4 for a summary of the soil gas sample VOCs laboratory analysis results.



# 5.0 DISCUSSION AND CONCLUSIONS

# 5.1 Regulatory Agency Guidance

February 2016 Environmental Screening Levels (ESLs)

The San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) has established regulatory agency guidance, ESLs, as an initial screening level evaluation. ESLs aid in assessing the potential threats to human health, terrestrial/aquatic habitats, and/or drinking water resources due to contaminants in soil, soil gas, and/or groundwater. Under most circumstances, the presence of contamination below applicable ESLs can be assumed to not pose a significant, chronic (i.e. long-term) adverse risk to the applicable receptor of concern. Conversely, sites that exceed ESLs generally require further evaluation and/or remediation. The ESLs were developed using default assumptions (e.g. standard exposure factors) and, consequently, are only meant for screening level assessments. The ESLs should not be considered enforceable regulatory standards. Cleanup levels are ultimately dependent on site-specific factors and are established by the regulatory agencies on a case-by-case basis.

### 5.2 Discussion

The detected concentration of TPH-o in soil sample B3-25, at 140 mg/kg, is significantly below the applicable ESL of 140,000 mg/kg.

The detected concentration of TCE in soil gas samples B1-SG5 and B2-SG5, at 770  $\mu$ g/m³ and 1,200  $\mu$ g/m³, respectively, are below the applicable ESL of 3,000  $\mu$ g/m³.

The highest detected concentration of VOCs in soil gas samples B3-SG5, B4-SG5, and B5-SG5 were benzene at 54  $\mu$ g/m³, toluene at 230  $\mu$ g/m³, ethylbenzene at 9.9  $\mu$ g/m³, xylene at 57  $\mu$ g/m³, acetone at 170  $\mu$ g/m³, bromodichloromethane at 16  $\mu$ g/m³, and MEK at 34  $\mu$ g/m³; which are all below the applicable ESLs of 420  $\mu$ g/m³, 1,300,000  $\mu$ g/m³, 4,900  $\mu$ g/m³, 440,000  $\mu$ g/m³, 140,000,000  $\mu$ g/m³, 330  $\mu$ g/m³, 22,000,000  $\mu$ g/m³, respectively.

There are no established ESLs for carbon disulfide, cyclohexane, heptane, hexane, tetrahydrofuran, or 1,2,4-trimethylbenzene.

# 5.3 Summary and Conclusions

Partner conducted a Phase II Subsurface Investigation at the subject property to investigate the remaining impacts of petroleum hydrocarbons and/or VOCs to soil and/or soil gas as a consequence of a release or releases from the previous and/or current site operations, including the historical and/or current USTs. The scope of the Phase II Subsurface Investigation included five soil and/or soil gas borings. Five soil samples were analyzed for TPH-cc and VOCs, and five soil gas samples were analyzed for VOCs.

Subsurface lithology encountered in the upper 30 feet bgs consisted predominantly of clay material. Groundwater was not encountered during this investigation and was not a part of the scope of work.

One of five soil samples analyzed contained detectable concentration of TPH-o above the laboratory RL, but this detection was significantly below the applicable ESL. No other soil samples analyzed contained detectable concentrations of TPH-cc or VOCs exceeding the laboratory RLs.



All soil gas samples contained detectable concentrations of one or more of the following VOCs above the laboratory RLs; including TCE, benzene, toluene, ethylbenzene, xylenes, acetone, carbon disulfide, cyclohexane, bromodichloromethane, heptane, hexane, tetrahydrofuran, 1,2,4-trimethylbenzene, and 2-butanone; however, are all below the applicable ESLs.

Based on the Subsurface Investigation, there is evidence of residual impacts beneath the subject property; however, all detections are below the applicable ESLs and do not appear to pose a significant vapor intrusion concern. Based on the current and future commercial designation for the subject property, including the planned redevelopment for use as a hotel, Partner recommends no further investigation with respect to the previous and/or current site operations, including the historical and/or current USTs, at this time. However, Partner notes that in the event that future redevelopment is planned for a more sensitive use, additional investigation and/or mitigation may be warranted.



# **TABLES**



# Table 1: Summary of Investigation Scope 5696 Stevens Creek Boulevard San Jose, California 95129 Partner Project Number 16-174952.1 January 2017

Boring Identification	Location	Terminal Depth (feet bgs)	Matrix Sampled	Sampling Depths* (feet bgs)	Target Analytes
B1	Adjacent to the south of the	30	Soil	5, 10, <b>15</b> , 20, 25, <b>30</b>	TPH-cc, VOCs
ы	on-site USTs	30	Soil Gas	<u>5</u>	VOCs
B2	Adjacent to the northwest of	30	Soil	5, 10, 15, <b>20</b> , 25, 30	TPH-cc, VOCs
	the on-site USTs	30	Soil Gas	<u>5</u>	VOCs
В3	Adjacent to the northeast of	30	Soil	5, 10, 15, 20, <b>25</b> , 30	TPH-cc, VOCs
ВЗ	the on-site USTs	30	Soil Gas	<u>5</u>	VOCs
В4	Adjacent to the east of the on- site USTs	5	Soil Gas	<u>5</u>	VOCs
B5	Northeastern portion of the	30	Soil	5, 10, 15, <b>20</b> , 25, 30	TPH-cc, VOCs
53	subject property	30	Soil Gas	<u>5</u>	VOCs

# Notes:

\*Depths in **bold** analyzed for carbon chain total petroleum hydrocarbons (TPH-cc) in accordance with United States Environmental Protection Agency (EPA) Method 8015 and for volatile organic compounds (VOCs) in accordance with EPA Method 8260. <u>Underlined</u> depths analyzed for VOCs in accordance with EPA Method TO-15.

bgs = below ground surface

UST = underground storage tank

# Table 2: Soil Sample TPH-cc Laboratory Results 5696 Stevens Creek Boulevard San Jose, California 95129 Partner Project Number 16-174952.1 January 2017

EPA Method			TPH-cc v	/ia 8015C					
Units		(mg/kg)							
Analyte	Commercial ESL	B1-15	B1-30	B2-20	B3-25	B5-20			
GRO	3,900	< 10	< 10	< 10	< 10	< 10			
DRO	1,100	< 10	< 10	< 10	< 10	< 10			
MORO	140,000	< 10	< 10	< 10	140	< 10			

#### Notes:

TPH-cc = carbon chain total petroleum hydrocarbons

EPA = United States Environmental Protection Agency

mg/kg = milligram per kilogram

GRO = gasoline range organics

DRO = diesel range organics

MORO = motor oil range organics

< = not detected above indicated laboratory Reporting Limit (RL)

ESL = Environmental Screening Level (San Francisco Bay Regional Water Quality Control Board February 2016), Soil Direct Exposure Human Health Risk for Commercial/Industrial Land Use, Table S-1.

Values in **bold** exceed laboratory RLs

# Table 3: Soil Sample VOCs Laboratory Results 5696 Stevens Creek Boulevard San Jose, California 95129 Partner Project Number 16-174952.1 January 2017

EPA Method			VOCs v	ia 8260B					
Units		(mg/kg)							
Analyte	Commercial ESL	B1-15	B1-30	B2-20	B3-25	B5-20			
Benzene	1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
Toluene	4,600	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
Ethylbenzene	22	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
m,p-Xylene	2,400	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010			
o-Xylene	2,400	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
PCE	2.70	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
TCE	8.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050			
MTBE	180	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020			
Other VOCs	NA	ND	ND	ND	ND	ND			

Notes:

VOCs = volatile organic compounds

EPA = United States Environmental Protection Agency

mg/kg = milligram per kilogram

PCE = tetrachloroethylene

TCE = trichloroethylene

MTBE = methyl tert-butyl ether

< = not detected above indicated laboratory Reporting Limit (RL)

ND = not detected above laboratory RLs

NA = not applicable

ESL = Environmental Screening Level (San Francisco Bay Regional Water Quality Control Board February 2016), Soil Direct Exposure Human Health Risk for Commercial/Industrial Land Use, Table S-1.

# Table 4: Soil Gas Sample VOCs Laboratory Results 5696 Stevens Creek Boulevard San Jose, California 95129 Partner Project Number 16-174952.1 January 2017

EPA Method Units	VOCs via TO-15 (μg/m³)							
Analyte	Commercial ESL	B1-SG5	B2-SG5	B3-SG5	B4-SG5	B5-SG5		
Benzene	420	< 0.14	< 0.14	54	< 0.14	< 0.14		
Toluene	1,300,000	< 0.14	< 0.14	140	230	< 0.14		
Ethylbenzene	4,900	< 0.14	< 0.14	9.9	< 0.14	< 0.14		
m,p-Xylene	440,000	< 0.20	< 0.20	57	< 0.20	< 0.20		
o-Xylene	440,000	< 0.085	< 0.085	13	< 0.085	< 0.085		
Acetone	140,000,000	< 0.49	< 0.49	170	< 0.49	< 0.49		
Carbon Disulfide	NA	< 0.22	< 0.22	15	< 0.22	< 0.22		
Cyclohexane	NA	< 0.16	< 0.16	120	390	310		
Bromodichloromethane	330	< 0.15	< 0.15	16	< 0.15	< 0.15		
Heptane	NA	< 0.15	< 0.15	450	810	730		
Hexane	NA	< 0.44	< 0.44	940	1,700	1,400		
Tetrahydrofuran	NA	< 0.25	< 0.25	8.7	< 0.25	< 0.25		
PCE	2,100	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21		
TCE	3,000	770	1,200	< 0.21	< 0.21	< 0.21		
1,2,4-Trimethylbenzene	NA	< 0.33	< 0.33	12	< 0.33	< 0.33		
2-Butanone (MEK)	22,000,000	< 0.45	< 0.45	34	< 0.45	< 0.45		
ISP	NA	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56		
Other VOCs	NA	ND	ND	ND	ND	ND		

#### Notes:

VOCs = volatile organic compounds

EPA = United States Environmental Protection Agency

 $\mu g/m^3$  = micrograms per cubic meter

PCE = tetrachloroethylene

TCE = trichloroethylene

MEK = methyl ethyl ketone

ISP = isopropyl alcohol (tracer gas)

< = not detected above indicated laboratory Method Detection Limit (MDL)

NA = not applicable

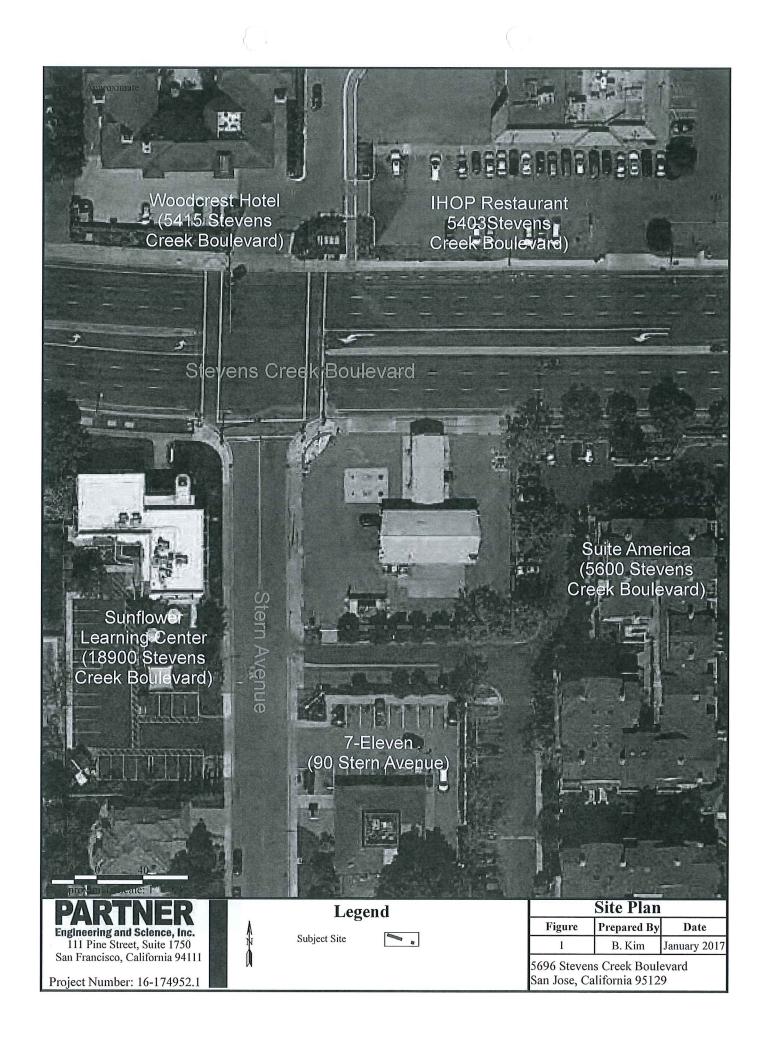
ND = not detected above laboratory RLs

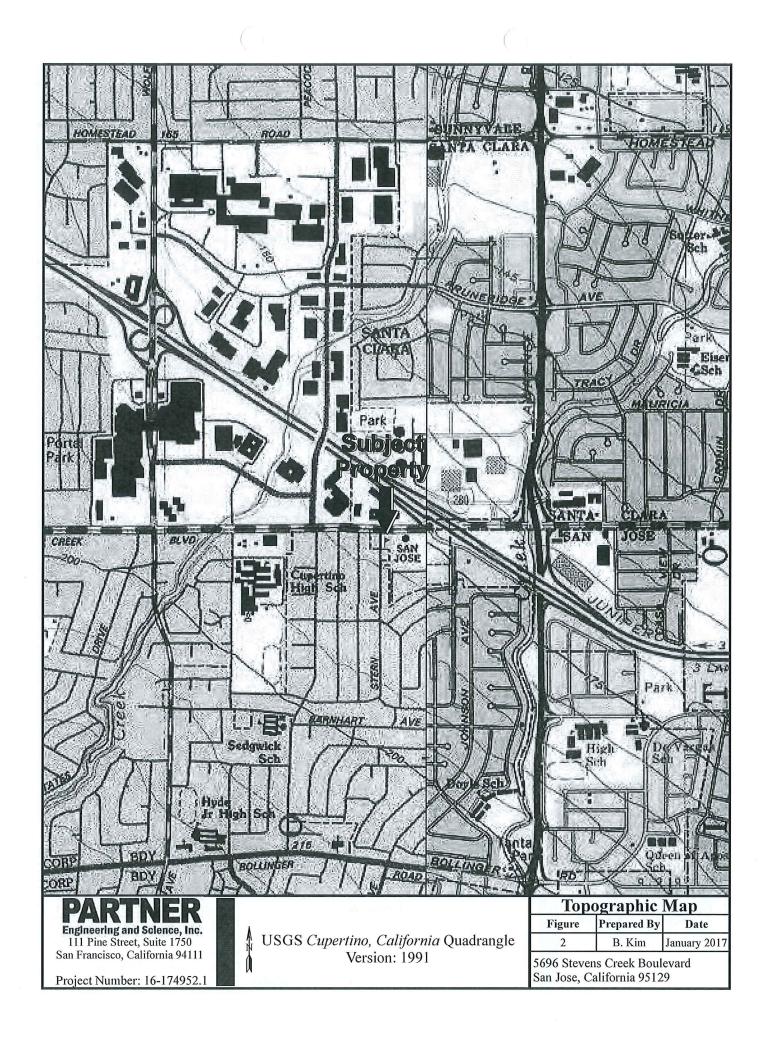
ESL = Environmental Screening Level (San Francisco Bay Regional Water Quality Control Board February 2016), Soil Gas Vapor Intrusion Human Health Risk for Commercial/Industrial Land Use, Table SG-1.

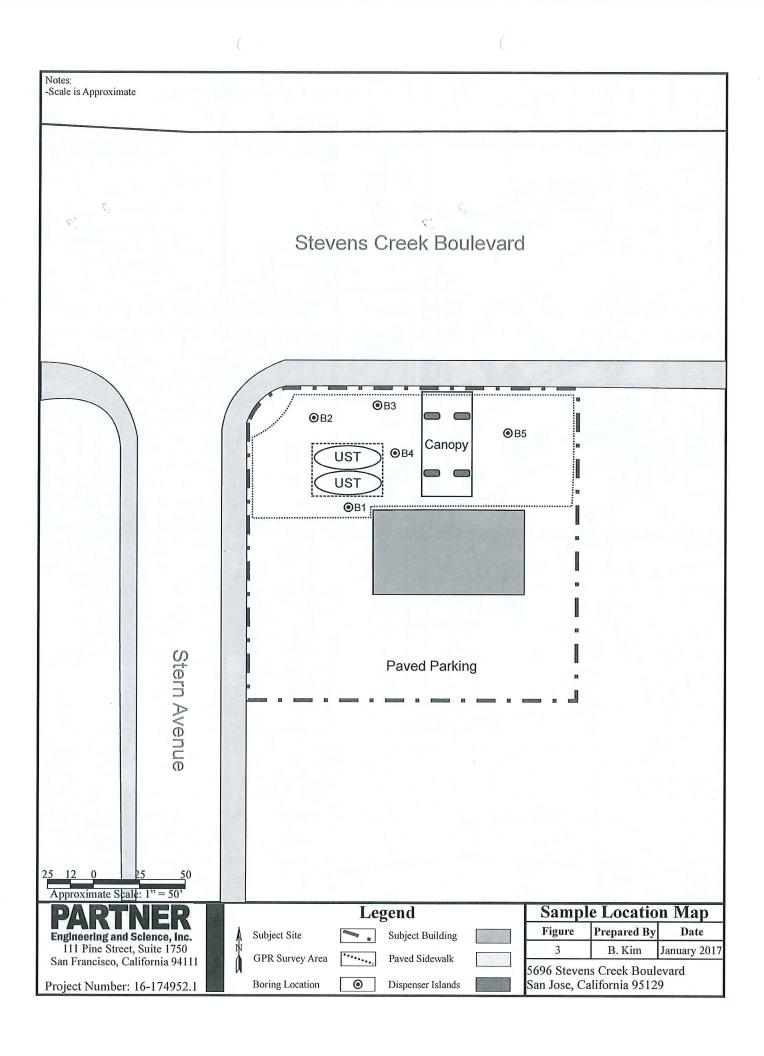
Values in **bold** exceed laboratory RLs

# **FIGURES**

**PARTNER** 







**APPENDIX A: BORING LOGS** 



			(			
Boring N	lumber:	B1			Page 1 of	2
Location		Adjace	nt to t	he south of the on-site USTs	Date Started:	12/21/2016
Site Add	ress:	1		Creek Boulevard	Date Completed:	12/21/2016
				fornia 95014	Depth to Groundwater:	N/A
Project N		16-174			Field Technician:	ВК
Drill Rig				ect push truck-rig	Partner Engineering and Science	
-	Equipment:	Acetat	e liner		111 Pine Street, Su	
	Diameter:	2.25"	T	4	San Francisco, Califor	rnia 94111
Depth	Sample	PID	USCS	Description	Notes	
1					Asphalt at surface	
2						
_						
3					1	28
4						
4						
5	B1-5 B1-SG5	0.2	CL	CLAY, dark brown, soft to medium stiff, slightly moist		
6						
6						
7						
8				Take the transfer of the		
9						
10	D4 40			CLAY de la lacera de la constante de la consta		
10	B1-10	0.0	CL	CLAY, dark brown, very stiff, damp to slightly moist		
11						
12						
12						
13						
14						
15	B1-15	0.2	CL	CLAY, dark brown, very stiff, damp to slightly moist		
16			1			
16						
17						
10						
18						
19				-		
20	61.00		ļ ,	SILT, trace fine grain sand, dark brown, soft to medium		
20	B1-20	0.3	ML	stiff, slightly moist to moist		
21						
22						
23						
.						
24						
25	B1-25	0.8	CL	CLAY, dark brown, soft to medium stiff, slightly moist	•	

Boring N	lumber:	B1			Page 2 of	2	
Location			nt to tl	ne south of the on-site USTs	Date Started:	12/21/2016	
Site Add				Creek Boulevard	Date Completed:	12/21/2016	
				fornia 95014	Depth to Groundwater:	N/A	
Project í	Number:	16-174			Field Technician:	BK	
Drill Rig				ect push truck-rig	Partner Engineering and Science		
	Equipment:	Acetat			111 Pine Street, S		
Borehole	Diameter:	2.25"		A-	San Francisco, Califo	ornia 94111	
Depth	Sample	PID	USCS	Description	Notes		
26							
27							
28					1		
29							
30	B1-30	0.1	SP	Fine grained SAND, trace silt, brown, loose, slight moist			
31				Boring terminated at 30 feet bgs. Borehole was backfilled with neat cement and capped to match surrounding cover upon completion of sampling.			
32				apon completion of sampling.			
33							
34							
35					i i		
36 37				<i>y</i>			
38							
39							
40							
41			a		-		
42							
43							
44	e		8		;		
45				1	1		
46				Y	,		
47					,		
48							
50							

Davina N	luma la a mi	lna.	(			1	2
Boring N Location		B2	nt to t	ha northwest of the an site LISTs	Page	1 of	2
Site Add				he northwest of the on-site USTs  Creek Boulevard	Date Started:  Date Completed:		12/21/2016 12/21/2016
Site Add	1033.	1		fornia 95014	Depth to Ground	water	N/A
Project N	Number:	16-174		101ma 33011	Field Technician:	water.	BK
Drill Rig		GeoPr	obe dir	ect push truck-rig	Partner Engineering and Science		
Sampling	Equipment:		e liner		111 Pine Street, Suite 1750		
-	Diameter:	2.25"			San Francisc		nia 94111
Depth	Sample	PID	ÜSCS	Description		Notes	
1				,	Asphalt at surface		
2							
3					2		
4							
5	B2-5	0.0	CL	CLAY, dark brown, soft to medium stiff, slightly moist			
3	62-5	0.0	CL	eear, dark drown, sort to mediam still, siightly moist			
6					1		
7				10			
8				1			
9					u u		
10	B2-10	0.1	CL	CLAY, dark brown, very stiff, slightly moist			
	32.10	0.1	0.2				
11							
12				·			
13							
12							
14							
15	B2-15	0.0		CLAY, trace fine grain sand, dark brown, medium stiff,			
				slightly moist			
16							
17							
18							
19							
20	B2-20	0.3	(1)	CLAY, trace fine grain sand, dark brown, very stiff, slightly moist			
21				THOUSE.			
21							
22					1		
23							
24							
25	B2-25	0.2	CL	CLAY, brown, medium stiff, slightly moist			

Boring N		B2			nieliz i	Page 2 of	2
Location				ne northwest of the on-site USTs	Date Started:		12/21/2016
Site Add	ress:			Creek Boulevard	Date Com		12/21/2016
				fornia 95014	<del> </del>	Groundwater:	N/A
	Number:	16-174			Field Tech		BK
Drill Rig				ect push truck-rig		er Engineering a	
	Equipment:	Acetat	e liner			l Pine Street, Su	
	Diameter:	2.25"			San F	rancisco, Califor	nia 94111
Depth	Sample	PID	USCS	Description		Notes	
26 27							
28			*				
29							
30	B2-30	0.4	CL	CLAY, brown, very stiff, slightly moist			
31				Boring terminated at 30 feet bgs. Borehole was backfilled with neat cement and capped to match surrounding cover			
32				upon completion of sampling			
33							
34				1			
35							
36				÷	11		
37 38				,			
39					1		
40							
41							
42			-				
43							
44							
45 46							
47							
48							
49							
50							

Boring N	lumber:	В3			T -	Page 1 of	2	
Location		Adjace	ent to t	he northeast of the on-site USTs	Date Start		12/21/2016	
Site Add	ress:	5696 5	Stevens	Creek Boulevard	Date Com	pleted:	12/21/2016	
1.7		San Jo	se, Cali	fornia 95014		Groundwater:	N/A	
	Number:	16-174		6.007	Field Tech	nician:	ВК	
Drill Rig				ect push truck-rig	Partner Engineering and Science		and Science	
	Equipment:	Acetat	e liner		111 Pine Street, Suite 17			
	Diameter:	2.25"	1,,,,,,,,	T	San F	rancisco, Califo	rnia 94111	
Depth	Sample	PID	USCS	Description		Notes		
1					Asphalt at sur	face		
2								
-	1			i i				
3		×						
4								
		i.						
5	B3-5	0.7	CL	CLAY, dark brown, stiff to very stiff, slightly moist				
6								
7				<u>.</u>				
8								
_								
9								
10	B3-10	0.3	CL	CLAY, trace fine grain sand, dark brown, medium stiff, slightly moist				
44				Signity moist				
11								
12								
13								
13								
14								
15	B3-15	0.2	CL	CLAY, brown, stiff to very stiff, slightly moist				
13		0.2	0.	and the state of t				
16								
17								
18								
19								
22								
20	B3-20	0.3	CL	CLAY, brown, very stiff to hard, damp				
21								
22								
22								
23								
24								
24				5				
25	B3-25	0.3	CL	CLAY, brown, medium stiff, slightly moist	 			

Boring N	lumher:	В3			Page 2 of	2
Location			ent to th	ne northeast of the on-site USTs	Date Started:	12/21/2016
Site Add				Creek Boulevard	Date Completed:	12/21/2016
once maa	1000.			fornia 95014	Depth to Groundwater:	N/A
Project N	Number:	16-174			Field Technician:	BK
Drill Rig		GeoPr	obe dir	ect push truck-rig	Partner Engineering a	nd Science
Sampling	Equipment:	Acetat	e liner		111 Pine Street, Sui	te 1750
Borehole	Diameter:	2.25"		÷	San Francisco, Califor	nia 94111
Depth	Sample	PID	USCS	Description	Notes	
26						
27		21				
28					, i	
29	D2 20	0.2		CLAY, brown, medium stiff, slightly moist		
30	B3-30	0.2	CL	Boring terminated at 30 feet bgs. Borehole was backfilled		
31				with neat cement and capped to match surrounding cover upon completion of sampling		
32						
33						
34				1		
35						
36				1	p.	
37					,	
38						
39					* 1	1
40						
41	*				1 1	
42						
43					1	
44					ı	
45		ā			1 1 v	
46						
47						
48						
49						
50				,		

Boring I	Number:	B4			Page 1 of	2
Locatio		Adjace	nt to th	ne east of the on-site USTs	Date Started:	12/21/2016
Site Ado	dress:			Creek Boulevard	Date Completed:	12/21/2016
P - 1		San Jo	se, Cali	fornia 95014	Depth to Groundwater:	N/A
	Number:	16-174			Field Technician:	ВК
Drill Rig				ect push truck-rig	Partner Engineering a	nd Science
	g Equipment:	Acetat	e liner		111 Pine Street, Su	
	e Diameter:	2.25"			San Francisco, Califor	nia 94111
Depth	Sample	PID	USCS	Description	Notes	
1					Asphalt at surface	
2						
3						
4				1	N F	
5	B4-SG5	0.0	CL	CLAY, dark brown, soft to medium stiff, slightly moist	1	
6				Boring terminated at 5 feet bgs. Borehole was backfilled with sand and bentonite chips and capped to match surrounding cover upon completion of sampling		
7					,	
8					1	
9						
10						
11					,	
12 13						
14						
15		12				
16					1	
17						
18					,	
19						
20						
21					,	
22					,	
23						
24						
25				A contract of the contract of		

			1		( )		
Boring Number:		B5			Page 1 of	2	
Location:		At the	northe	astern portion of the subject property	Date Started:	12/21/2016	
Site Address:		5696 S	tevens	Creek Boulevard	Date Completed:	12/21/2016	
		San Jos	se, Cali	fornia 95014	Depth to Groundwater:	N/A	
Project N		16-174			Field Technician:	ВК	
Drill Rig Type:				ect push truck-rig	Partner Engineering and Science		
Sampling Equipment:		Acetat	e liner		111 Pine Street, Suite 1750		
	Diameter:	2.25"			San Francisco, California 94111		
Depth	Sample	PID	USCS	Description	Notes		
1					Asphalt at surface		
,					e e		
2							
3							
4							
5	B5-5	0.3	CL	CLAY, dark brown, stiff to very stiff, slightly moist			
_					4		
6							
7							
8							
9							
10	B5-10	0.1	CL	CLAY, dark brown, very stiff to hard, slightly moist	ž		
10	63-10	0.1	CL.	CEAT, dark brown, very still to hard, slightly moist	1		
11					1		
12				1	1		
12							
13							
14					1		
					1		
15	B5-15	0.2	CL	CLAY, trace fine grained sand, brown, medium stiff, damp			
16							
17							
18					,		
19							
20	B5-20	0.2	CL	CLAY, brown, medium stiff, slightly moist			
			Provide Contract Cont				
21							
22							
					u		
23							
24							
				CLAY, trace fine grain sand, brown, medium stiff, slightly			
25	B5-25	0.1	CL	moist			

Boring Number:		B5			Page 2 of 2		
Location:			northe	astern portion of the subject property	Date Started:	12/21/2016	
Site Address:		_		Creek Boulevard	Date Completed:	12/21/2016	
				fornia 95014	Depth to Groundwater:	N/A	
Project Number:		16-174			Field Technician:	ВК	
Drill Rig Type:		GeoPr	obe dir	ect push truck-rig	Partner Engineering		
		Acetat	e liner		111 Pine Street, Suite 1750		
Borehole Diameter:		2.25"			San Francisco, California 94111		
Depth	Sample	PID	USCS	Description	Notes		
26							
27					0		
28							
29							
30	B5-30	0.2	CL	CLAY, brown, very stiff to hard, damp to slightly moist			
31				Boring terminated at 30 feet bgs. Borehole was backfilled with neat cement and capped to match surrounding cover upon completion of sampling	, I		
32							
33							
34							
35							
36							
37							
38							
39					I .		
40							
42							
43							
44							
45							
46							
47					ě		
48							
49							
50							

**APPENDIX B: LABORATORY ANALYTICAL REPORTS** 





25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

30 December 2016

Joe Mangine
Partner Engineering & Science, Inc.--San Francisco
111 Pine St. Suite 1750
San Francisco, CA 94111

RE: 5696 Stevens Creek Blvd, San Jose, CA 95129

Enclosed are the results of analyses for samples received by the laboratory on 12/28/16 11:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Nguyen

Project Manager Assistant



25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 12/30/16 14:30

# ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1-15	T163324-03	Soil	12/21/16 12:47	12/28/16 11:25
B1-30	T163324-06	Soil	12/21/16 13:54	12/28/16 11:25
B2-20	T163324-10	Soil	12/21/16 14:50	12/28/16 11:25
B3-25	T163324-17	Soil	12/21/16 16:12	12/28/16 11:25
B5-20	T163324-22	Soil	12/21/16 12:08	12/28/16 11:25

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



25712 Commercentre Drive Lake Forest, California 92630 949.297.5020 Phone 949.297.5027 Fax

Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine

Reported: 12/30/16 14:30

#### **DETECTIONS SUMMARY**

Sample ID: B1-15 Laboratory ID: T163324-03 No Results Detected Sample ID: Laboratory ID: T163324-06 No Results Detected Sample ID: B2-20 Laboratory ID: T163324-10 No Results Detected Sample ID: B3-25 Laboratory ID: T163324-17 Reporting Analyte Result Limit Units Method Notes C29-C40 (MORO) 140 10 mg/kg EPA 8015C Sample ID: B5-20 Laboratory ID: T163324-22

No Results Detected

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 12/30/16 14:30

# B1-15 T163324-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Extractable Petroleum Hydrocarbons	by 8015C								
C6-C12 (GRO)	ND	10	mg/kg	1	6122827	12/28/16	12/28/16	EPA 8015C	
C13-C28 (DRO)	ND	10	11	11	W.	m .	"	n	
C29-C40 (MORO)	ND	10	"		u.		n n		
Surrogate: p-Terphenyl		98.4 %	65-	135	"	<u>u</u>	"	"	
Volatile Organic Compounds by EPA	Method 8260B								
Bromobenzene	ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	
Bromochloromethane	ND	0.0050	11		ш		11	n	
Bromodichloromethane	ND	0.0050	11	"		11	11	n	
Bromoform	ND	0.0050	11	"	II	11	ii	30	
Bromomethane	ND	0.0050	**	"	11	"	"	n .	
n-Butylbenzene	ND	0.0050	11	"	11	"	"	TO .	
sec-Butylbenzene	ND	0.0050	11	"	11	"	"	10	
tert-Butylbenzene	ND	0.0050	H.	"	u	10	n	10	
Carbon tetrachloride	ND	0.0050	11	11	ΙΪ	11	11	Ti .	
Chlorobenzene	ND	0.0050	**		u	"	n n		
Chloroethane	ND	0.0050	17	ш			u		
Chloroform	ND	0.0050	11	п	11	11	n n	w	
Chloromethane	ND	0.0050	11	n	0	n.	TI .	30	
2-Chlorotoluene	ND	0.0050	11	n	"	ii.	ii	"	
4-Chlorotoluene	ND	0.0050	17		п		n	"	
Dibromochloromethane	ND	0.0050	II .	u.	,111	п	n		
1,2-Dibromo-3-chloropropane	ND	0.010	11	11		n	TI I	"	
1,2-Dibromoethane (EDB)	ND	0.0050	n	Ti.	II.	TI.	in	"	
Dibromomethane	ND	0.0050	112		ij.		411		
1,2-Dichlorobenzene	ND	0.0050	u .	"	n .	u u	311	11	
1,3-Dichlorobenzene	ND	0.0050	11	и	n i		ж	n .	
1,4-Dichlorobenzene	ND	0.0050	Tr.	11	n.	"	w	n .	
Dichlorodifluoromethane	ND	0.0050	n .	. 10	11	ii .	,,,	n	
1,1-Dichloroethane	ND	0.0050	11		"	"	"		
1,2-Dichloroethane	ND	0.0050	II .	u.	"	"	"		
1,1-Dichloroethene	ND	0.0050	11	0.	11				

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine

Reported: 12/30/16 14:30

# B1-15 T163324-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Volatile Organic Compounds by EPA	Method 8260B								9
cis-1,2-Dichloroethene	ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.0050	u u		n	"	11	11	
1,2-Dichloropropane	ND	0.0050	11	m .	iii	ű	n .	11	
1,3-Dichloropropane	ND	0.0050	11	ñ.			"	n .	
2,2-Dichloropropane	ND	0.0050	.0	9	"	0	0	"	
1,1-Dichloropropene	ND	0.0050		m <sup>c</sup>	u	n	- m	n	
cis-1,3-Dichloropropene	ND	0.0050	11	ii.	u	11	Ĥ	н	
trans-1,3-Dichloropropene	ND	0.0050	n	"	ı	"	ñ.	11	
Hexachlorobutadiene	ND	0.0050	11	ü	.0	11	10	"	
Isopropylbenzene	ND	0.0050	"	- 0		ш	II .	10	
p-Isopropyltoluene	ND	0.0050	w	n		II	Ti I	ñ.	
Methylene chloride	ND	0.0050	11	n	"	n .	ű	n	
Naphthalene	ND	0.0050	11	ű	u	"	11	"	
n-Propylbenzene	ND	0.0050	11	10	п	"	u	n.	
Styrene	ND	0.0050	ш		n	n .	· u	u.	
1,1,2,2-Tetrachloroethane	ND	0.0050	11	n .	11	11	"	n	
1,1,1,2-Tetrachloroethane	ND	0.0050	II .	n n	"	ii .	iii	0	
Tetrachloroethene	ND	0.0050	11	"			u.	n.	
1,2,3-Trichlorobenzene	ND	0.0050	11	n .	"	"	"		
1,2,4-Trichlorobenzene	ND	0.0050	11			w	n	0.	
1,1,2-Trichloroethane	ND	0.0050		**	TI.	"	11	ŭ	
1,1,1-Trichloroethane	ND	0.0050	H.	"	11	"	"	91	
Trichloroethene	ND	0.0050	"	n n		п		u.	
Trichlorofluoromethane	ND	0.0050	11		m		"	"	
1,2,3-Trichloropropane	ND	0.0050	ш				in .	"	
1,3,5-Trimethylbenzene	ND	0.0050	п	n	II		II .	n	
1,2,4-Trimethylbenzene	ND	0.0050	II	ĬĬ	II.	ii.	ji.	ű	
Vinyl chloride	ND	0.0050	II .	1	ir	"		"	
Benzene	ND	0.0050	"			п	11	u	
Toluene	ND	0.0050	11		ж	11		u	
Ethylbenzene	ND	0.0050	u.	n	"	11	u	u	
m,p-Xylene	ND	0.010	"	11	"			11	

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 12/30/16 14:30

# B1-15 T163324-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratories	, Inc.					
Volatile Organic Compounds by EPA	Method 8260B	Y							
o-Xylene	ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	
Tert-amyl methyl ether	ND	0.020	"	10	- "	10	01	11	
Tert-butyl alcohol	ND	0.050	11	п	n n	11	0	11	
Di-isopropyl ether	ND	0.020	"	11	"	n	III	n .	
Ethyl tert-butyl ether	ND	0.020	"	31	n n		n .	п	
Methyl tert-butyl ether	ND	0.020	II .	31	11		n .	n n	
Surrogate: 4-Bromofluorobenzene		103 %	81.2-12	23	"	"	"	"	
Surrogate: Dibromofluoromethane		135 %	95.7-13	35	"	<b>11</b>	"	n	
Surrogate: Toluene-d8		83.4 %	85.5-11	6	n	"	"	"	S-GC

SunStar Laboratories, Inc.

So



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine

Reported: 12/30/16 14:30

# B1-30 T163324-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		SunStar L	aboratori	es, Inc.					
Extractable Petroleum Hydrocarbons	s by 8015C								
C6-C12 (GRO)	ND	10	mg/kg	1	6122827	12/28/16	12/28/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"			11	"	"	
C29-C40 (MORO)	ND	10	11	ñ	n .		11	11	
Surrogate: p-Terphenyl		98.7 %	65-1	135	"	"	"	"	1
Volatile Organic Compounds by EPA	Method 8260B								
Bromobenzene	ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	
Bromochloromethane	ND	0.0050	"		10	0	11	11	
Bromodichloromethane	ND	0.0050	"	10	0	0	•	n	
Bromoform	ND	0.0050	11	n	0	•	n.	0.1	
Bromomethane	ND	0.0050	31	п	0		ñ	ñ.	
n-Butylbenzene	ND	0.0050	11	п	"	"	0.	0.	
sec-Butylbenzene	ND	0.0050	11	"		u	0.1	m.	
tert-Butylbenzene	ND	0.0050	11	**	0	0	u	0.5	
Carbon tetrachloride	ND	0.0050	11	u	n	u	70	iii	
Chlorobenzene	ND	0.0050	11	11	11	n .	× u	ÿ.	
Chloroethane	ND	0.0050	11	n	"		11	n ·	
Chloroform	ND	0.0050	"	11	"	u	10	ii .	
Chloromethane	ND	0.0050	**			n	10	ñ	
2-Chlorotoluene	ND	0.0050	п	"	11	n	"	9	
4-Chlorotoluene	ND	0.0050	11	"	11			· ·	
Dibromochloromethane	ND	0.0050	11	п	n .				
1,2-Dibromo-3-chloropropane	ND	0.010		ш		"	"	U	
1,2-Dibromoethane (EDB)	ND	0.0050	11	л	n	n	n	u	
Dibromomethane	ND	0.0050	11	11	11	n	Ü	n	
1,2-Dichlorobenzene	ND	0.0050	11	11	11	n	"	"	
1,3-Dichlorobenzene	ND	0.0050	11		<u> </u>	11		u u	
1,4-Dichlorobenzene	ND	0.0050	11	ш	11		п	. "	
Dichlorodifluoromethane	ND	0.0050	"	ш	"	"	п	u	
1,1-Dichloroethane	ND	0.0050	11	TI .	"	n	11	n n	
1,2-Dichloroethane	ND	0.0050	TI.	TI.	"	,,,			
1,1-Dichloroethene	ND	0.0050	11	"	11			w	

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported:

12/30/16 14:30

## B1-30 T163324-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		SunStar L	aboratori	es, Inc.					
Volatile Organic Compounds by EPA	A Method 8260B								
cis-1,2-Dichloroethene	ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.0050	"	"	"		.0	"	
1,2-Dichloropropane	ND	0.0050	110	11	n	11	11	TI .	
1,3-Dichloropropane	ND	0.0050	"	11	11	W	u	"	
2,2-Dichloropropane	ND	0.0050	IF	11	"	11	Ü	10	
1,1-Dichloropropene	ND	0.0050	11			"	***	ij	
cis-1,3-Dichloropropene	ND	0.0050	11	10	,,,		u		
trans-1,3-Dichloropropene	ND	0.0050	ш		n		U	"	
Hexachlorobutadiene	ND	0.0050	11	II.	11	10	u		
Isopropylbenzene	ND	0.0050	Tr.	11	II .	10	11	"	
p-Isopropyltoluene	ND	0.0050	u.		11		.0	u	
Methylene chloride	ND	0.0050	11.		10		9	"	
Naphthalene	ND	0.0050	m_	п	,11	п	10	"	
n-Propylbenzene	ND	0.0050	11.	II.	n	"	.0	"	
Styrene	ND	0.0050	n.	11				ij	
1,1,2,2-Tetrachloroethane	ND	0.0050	u.	11	11		.0		
1,1,1,2-Tetrachloroethane	ND	0.0050	11	"	II .		0	"	
Tetrachloroethene	ND	0.0050	n	n n	11	"	.00	"	
1,2,3-Trichlorobenzene	ND	0.0050	11.	11	11	и	.00	"	
1,2,4-Trichlorobenzene	ND	0.0050	п.		n		90		
1,1,2-Trichloroethane	ND	0.0050	#		n	11	u		
1,1,1-Trichloroethane	ND	0.0050	п	n	n	n	11	"	
Trichloroethene	ND	0.0050	11	n.	11	ñ	in .	"	
Trichlorofluoromethane	ND	0.0050	"		n	n	Ü	"	
1,2,3-Trichloropropane	ND	0.0050	"	11	п	11	11	"	
1,3,5-Trimethylbenzene	ND	0.0050	ш	"	II.	u	10	· ·	
1,2,4-Trimethylbenzene	ND	0.0050	11	"	TI.	10	11	"	
Vinyl chloride	ND	0.0050	ır	"	n	Ti .	11	"	
Benzene	ND	0.0050	II .	"	n.	"	11	Ü	
Toluene	ND	0.0050	n	"	11		·u	u u	
Ethylbenzene	ND	0.0050	11.	"	n.	u	11	U	
m,p-Xylene	ND	0.010	ш			n	0	50	

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine

Reported:

er: Joe Mangine 12/30/16 14:30

# B1-30 T163324-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Volatile Organic Compounds by EPA Met	hod 8260B								
o-Xylene	ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	
Tert-amyl methyl ether	ND	0.020		п	u .	ii .	11	0	
Tert-butyl alcohol	ND	0.050	11	11	ň	"	"	п	
Di-isopropyl ether	ND	0.020	11			"	"	n	
Ethyl tert-butyl ether	ND	0.020	11	"	TI I	U	u.	α =	
Methyl tert-butyl ether	ND	0.020	11	u u	11	n	ii .	n -	
Surrogate: 4-Bromofluorobenzene		104 %	81.2-	123	"	"	"	"	
Surrogate: Dibromofluoromethane		128 %	95.7-	135	"	"	"	"	
Surrogate: Toluene-d8		82.6 %	85.5-	116	"	"	"	"	S-GC

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 12/30/16 14:30

# B2-20 T163324-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Extractable Petroleum Hydrocarbons	by 8015C			**					
C6-C12 (GRO)	ND	10	mg/kg	1	6122827	12/28/16	12/28/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	11	n	**	**		
C29-C40 (MORO)	ND	10	0	n.	•	u.	"	Dr.	
Surrogate: p-Terphenyl		97.8 %	65-1	35	"	"	"	n .	
Volatile Organic Compounds by EPA	Method 8260B								
Bromobenzene	ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	
Bromochloromethane	ND	0.0050	"		9	22	,,,	u u	
Bromodichloromethane	ND	0.0050	w	0.5	v.		"		
Bromoform	ND	0.0050	U		"	11	"	u u	
Bromomethane	ND	0.0050	U	UE.		u		"	
n-Butylbenzene	ND	0.0050	"			115	"	•	
sec-Butylbenzene	ND	0.0050	"	w	20				
tert-Butylbenzene	ND	0.0050	u	0.5	**	11	"	"	
Carbon tetrachloride	ND	0.0050	11	10				"	
Chlorobenzene	ND	0.0050	11	0	11	11	"	"	
Chloroethane	ND	0.0050	11		"	"	"		
Chloroform	ND	0.0050	11	u u		U	"	"	
Chloromethane	ND	0.0050	. 11	u.	"	n	"	"	
2-Chlorotoluene	ND	0.0050	11	n.	U	10.	"	u u	
4-Chlorotoluene	ND	0.0050	11	n	11	n	"	70	
Dibromochloromethane	ND	0.0050	11	11	11	11	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	11	11	11	11	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	10	11	11	11	"	"	
Dibromomethane	ND	0.0050	11	11	11	11	"	"	
1,2-Dichlorobenzene	ND	0.0050	Tr.	n	11	n	"	"	
1,3-Dichlorobenzene	ND	0.0050	tt.		115	10		"	
1,4-Dichlorobenzene	ND	0.0050	11	m	11	ш	"	au .	
Dichlorodifluoromethane	ND	0.0050	II.	16	U	п	n	u	
1,1-Dichloroethane	ND	0.0050	TF:	n .	11	II	11		
1,2-Dichloroethane	ND	0.0050	11	п	11	H .	"	"	
1,1-Dichloroethene	ND	0.0050	U.	110	n				

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Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111

Project Number: 16-174952.1 Project Manager: Joe Mangine

Reported: 12/30/16 14:30

B2-20 T163324-10 (Soil)

Reporting

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		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
		SunStar L	aboratori	es, Inc.					
Volatile Organic Compounds by EPA M	Iethod 8260B								
cis-1,2-Dichloroethene	ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	3.1
trans-1,2-Dichloroethene	ND	0.0050	11	Ü	ü	ű	-ii	II .	
1,2-Dichloropropane	ND	0.0050	11	п	n n	n n	10	"	
1,3-Dichloropropane	ND	0.0050	11		n	u	.0	11.	
2,2-Dichloropropane	ND	0.0050			11	"		n.	
1,1-Dichloropropene	ND	0.0050	11	п	"	"	"	n .	
cis-1,3-Dichloropropene	ND	0.0050	11	11	ű.	n		u .	
trans-1,3-Dichloropropene	ND	0.0050	11	"	и	u	"	m.	
Hexachlorobutadiene	ND	0.0050	u	"	"	'n	n	W.	
Isopropylbenzene	ND	0.0050	11	n	**	m .	"	n	
p-Isopropyltoluene	ND	0.0050	u	n		II .	"	u.	
Methylene chloride	ND	0.0050	TE.	31		ш	п	,,	
Naphthalene	ND	0.0050	n .		· <u>u</u>	11	ш	"	
n-Propylbenzene	ND	0.0050	11	"	11		II	n	
Styrene	ND	0.0050	11	п	w	u u	w	ŭ	
1,1,2,2-Tetrachloroethane	ND	0.0050	11	п	īī	п		u	
1,1,1,2-Tetrachloroethane	ND	0.0050	п		п	21.		"	
Tetrachloroethene	ND	0.0050	n	"			"	n .	
1,2,3-Trichlorobenzene	ND	0.0050	n	n.	л		"	п	
1,2,4-Trichlorobenzene	ND	0.0050	11	ш	"	п		II .	
1,1,2-Trichloroethane	ND	0.0050	TE.	Ti .	îs	n		u u	
1,1,1-Trichloroethane	ND	0.0050	ii .	"		11.	n	"	
Trichloroethene	ND	0.0050	"	"	11	11	n	n .	
Trichlorofluoromethane	ND	0.0050	"	"		11	n	п	
1,2,3-Trichloropropane	ND	0.0050		TE.		n	n	ji .	
1,3,5-Trimethylbenzene	ND	0.0050	u	11	ш	11	11		
1,2,4-Trimethylbenzene	ND	0.0050	ii.	11	11	**	90	11	
Vinyl chloride	ND	0.0050		"	11	"	11	n .	
Benzene	ND	0.0050	"	"		п	Ti.	п	
Toluene	ND	0.0050	**	n.	ii .	n	iii		
Ethylbenzene	ND	0.0050	"	n	п		"		
m,p-Xylene	ND	0.010	n	9		"		"	

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported:

12/30/16 14:30

# B2-20 T163324-10 (Soil)

									- 1
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Volatile Organic Compounds by EPA	Method 8260B								
o-Xylene	ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	
Tert-amyl methyl ether	ND	0.020	"	"	"	"	11	U	
Tert-butyl alcohol	ND	0.050	п	"		"	n	U	
Di-isopropyl ether	ND	0.020	III	11		n	n	ü	
Ethyl tert-butyl ether	ND	0.020	11				n		
Methyl tert-butyl ether	ND	0.020	u	,,,	II.	11	n		
Surrogate: 4-Bromofluorobenzene		101 %	81.2-	-123	"	"	"	"	
Surrogate: Dibromofluoromethane		129 %	95.7-	135	"	"	"	"	
Surrogate: Toluene-d8		81.3 %	85.5-	-116	"	"	"	n	S-GC

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 12/30/16 14:30

# B3-25 T163324-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Extractable Petroleum Hydrocarbons by 8015	С								
C6-C12 (GRO)	ND	10	mg/kg	1	6122827	12/28/16	12/29/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"	ii ii	"	"	"		
C29-C40 (MORO)	140	10	11	n	11	11			
Surrogate: p-Terphenyl		94.9 %	65-1	35	"	"	"	"	
Volatile Organic Compounds by EPA Method 8	8260B								
Bromobenzene	ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	
Bromochloromethane	ND	0.0050	"	"	n	ıı	"	"	
Bromodichloromethane	ND	0.0050	II.	n	n .	n	"	11	
Bromoform	ND	0.0050	u	"	n	"	п	70	
Bromomethane	ND	0.0050	n n		n	n	II.		
n-Butylbenzene	ND	0.0050	11	ii .	ñ	n			
sec-Butylbenzene	ND	0.0050	11		ŭ	<u>m</u>	11	и	
tert-Butylbenzene	ND	0.0050	u u		0.1	II.	11.	п	
Carbon tetrachloride	ND	0.0050	"		"	II.	п	п	
Chlorobenzene	ND	0.0050	U		11	ii .	n n	,u	
Chloroethane	ND	0.0050	"	ü	11	n.			
Chloroform	ND	0.0050	11		n	u	"	m.	
Chloromethane	ND	0.0050			u	"		11	
2-Chlorotoluene	ND	0.0050	TI .		"	in	n	īī.	
4-Chlorotoluene	ND	0.0050	n	п	TI .			"	
Dibromochloromethane	ND	0.0050	.01	0	n n			"	
1,2-Dibromo-3-chloropropane	ND	0.010	n		"	20		"	
1,2-Dibromoethane (EDB)	ND	0.0050	ш.,	**	"	11	0	n	
Dibromomethane	ND	0.0050	31	**	11		n .	ii	
1,2-Dichlorobenzene	ND	0.0050	н		п	n	0	"	
1,3-Dichlorobenzene	ND	0.0050	11	11	n	n		"	
1,4-Dichlorobenzene	ND	0.0050	u	11	п	n	10	11	
Dichlorodifluoromethane	ND	0.0050	211				n	ű.	
1,1-Dichloroethane	ND	0.0050	,11	11	**	11	п	ĩ	
1,2-Dichloroethane	ND	0.0050		п	11	n n	11	"	
1,1-Dichloroethene	ND	0.0050	"	<u>u</u>	п	.01	u		

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 12/30/16 14:30

# B3-25 T163324-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Volatile Organic Compounds by EPA	Method 8260B								
cis-1,2-Dichloroethene	ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.0050	11		11	n	0	n	
1,2-Dichloropropane	ND	0.0050	11	11	TI.	10	o ·	n .	
1,3-Dichloropropane	ND	0.0050	11	ш	u		U		
2,2-Dichloropropane	ND	0.0050	11	п	"			n .	
1,1-Dichloropropene	ND	0.0050	11	u u	"	U	U	n .	
cis-1,3-Dichloropropene	ND	0.0050	11	n		n .			
trans-1,3-Dichloropropene	ND	0.0050	11	11	"		Ü	u .	
Hexachlorobutadiene	ND	0.0050	11	"	"	"	u u	m.	
Isopropylbenzene	ND	0.0050	11	"		"	u	n	
p-Isopropyltoluene	ND	0.0050	11				10	11	
Methylene chloride	ND	0.0050			n	n .	n	n	
Naphthalene	ND	0.0050	II.		"	n	-11	11	
n-Propylbenzene	ND	0.0050	11	"	n	u	10	m.	
Styrene	ND	0.0050	u.			"	U	m.	
1,1,2,2-Tetrachloroethane	ND	0.0050	u.	"	n	n .	.0	n	
1,1,1,2-Tetrachloroethane	ND	0.0050	11	11	n .	"	"	•	
Tetrachloroethene	ND	0.0050	11	n			"	n.	
1,2,3-Trichlorobenzene	ND	0.0050	11	"			"	H.	
1,2,4-Trichlorobenzene	ND	0.0050	11		11.				
1,1,2-Trichloroethane	ND	0.0050	11	11.	II.	"	"	n .	
1,1,1-Trichloroethane	ND	0.0050	11	11	n	"			
Trichloroethene	ND	0.0050	"	"	п	"	п	n .	
Trichlorofluoromethane	ND	0.0050	"	. "	u	11	n	u ·	
1,2,3-Trichloropropane	ND	0.0050	11	"	11	n	u	m .	
1,3,5-Trimethylbenzene	ND	0.0050	TE .	11.	u.	n	n	n	
1,2,4-Trimethylbenzene	ND	0.0050	п	"	"	n			
Vinyl chloride	ND	0.0050	H	11.			11		
Benzene	ND	0.0050	u	"	u	u	u	n	
Toluene	ND	0.0050	III.	11	"	11	"		
Ethylbenzene	ND	0.0050	m	n	"	n	u		
m,p-Xylene	ND	0.010	11	II.		"	,11	· v	

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Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 12/30/16 14:30

# B3-25 T163324-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Volatile Organic Compounds by EPA Meth	od 8260B								
o-Xylene	ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	
Tert-amyl methyl ether	ND	0.020	11		п	"	ň	"	
Tert-butyl alcohol	ND	0.050	311	n	0	11		"	
Di-isopropyl ether	ND	0.020	" "			n	0	<u> </u>	
Ethyl tert-butyl ether	ND	0.020	u	30		п	n	"	
Methyl tert-butyl ether	ND	0.020	11		"	II .	u	11	
Surrogate: 4-Bromofluorobenzene		97.4 %	81.2-	123	"	"	"	n.	
Surrogate: Dibromofluoromethane		106 %	95.7-	135	"	"	"	"	
Surrogate: Toluene-d8		81.1 %	85.5-	116	"	"	"	"	S-GC

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Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 12/30/16 14:30

# B5-20 T163324-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratori	es, Inc.					
Extractable Petroleum Hydrocarbons	s by 8015C								
C6-C12 (GRO)	ND	10	mg/kg	1	6122827	12/28/16	12/29/16	EPA 8015C	
C13-C28 (DRO)	ND	10	"			"		n.	
C29-C40 (MORO)	ND	10	"	n	11	200	11	n	
Surrogate: p-Terphenyl		98.3 %	65-1	35	"	"	"	n .	
Volatile Organic Compounds by EPA	Method 8260B								
Bromobenzene	ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	
Bromochloromethane	ND	0.0050	п	- 11	"	н		n	
Bromodichloromethane	ND	0.0050	11	11	II .	n	10	n	
Bromoform	ND	0.0050	11	"	II .	n	"	Ü	
Bromomethane	ND	0.0050	11				"	10	
n-Butylbenzene	ND	0.0050		u.	п	11	11	n	
sec-Butylbenzene	ND	0.0050	115	11	11	11	11	Or Control	
tert-Butylbenzene	ND	0.0050	n	11	n .	"	11	ii .	
Carbon tetrachloride	ND	0.0050	11	11	"	"	ıı .		
Chlorobenzene	ND	0.0050	11	11		"	11	"	
Chloroethane	ND	0.0050	u.	11	n	11	11	"	
Chloroform	ND	0.0050	115	11	11	ш	TI.	"	
Chloromethane	ND	0.0050	II.	11	"	11	11		
2-Chlorotoluene	ND	0.0050	11	"	"	II.	"		
4-Chlorotoluene	ND	0.0050	TI.	"	п	11	"	II .	
Dibromochloromethane	ND	0.0050	11	11	II.	11	n	n	
1,2-Dibromo-3-chloropropane	ND	0.010	11	"	II	11	"	n	
1,2-Dibromoethane (EDB)	ND	0.0050	11	н	n	11	"	in .	
Dibromomethane	ND	0.0050	11		n	"	ш	91	
1,2-Dichlorobenzene	ND	0.0050	u		n	"	11	п	
1,3-Dichlorobenzene	ND	0.0050	11	11	11.	"	п	и	
1,4-Dichlorobenzene	ND	0.0050	TO .	II.	ï	"	11	н	
Dichlorodifluoromethane	ND	0.0050	n	n	"	"	n		
1,1-Dichloroethane	ND	0.0050			"	"	u,	"	
1,2-Dichloroethane	ND	0.0050	U			n.			
1,1-Dichloroethene	ND	0.0050	w	III	11	n.	11	11	

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 12/30/16 14:30

# B5-20 T163324-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L			CEL MINE TO	0.000	AND THE RESERVE		
V-1-("L-0	EDA MAJARI 02 ČOD	Sunstai L	aboi atoi i	es, me.					
Volatile Organic Compounds by	ND	0.0050	/1		(100000	12/20/16	10/20/16	ED4 02/0D	
cis-1,2-Dichloroethene	ND ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	
trans-1,2-Dichloroethene	ND ND	0.0050	0		,,	,,		"	
1,2-Dichloropropane	ND ND	0.0050	W.		,,	,,	11	,,	
1,3-Dichloropropane			"		,,	,,	 11	"	
2,2-Dichloropropane	ND	0.0050	"		,,		11		
1,1-Dichloropropene	ND	0.0050	"	"	,,		" "		
cis-1,3-Dichloropropene	ND	0.0050	"	,,	,		"	"	
trans-1,3-Dichloropropene	ND	0.0050					"		
Hexachlorobutadiene	ND	0.0050	"	"	. "	"	"		
Isopropylbenzene	ND	0.0050	"	"	"			"	
p-Isopropyltoluene	ND	0.0050	11	"	n	е п	110	"	
Methylene chloride	ND	0.0050	"		ii.	115	11	"	
Naphthalene	ND	0.0050	"	"	m.	п	"	"	
n-Propylbenzene	ND	0.0050	"	0	n.	II .	11	"	
Styrene	ND	0.0050	"	"	"	II .	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0050	"	"		ji.		11.	
1,1,1,2-Tetrachloroethane	ND	0.0050		0	III.	11		"	
Tetrachloroethene	ND	0.0050		"	II.	n n	"	11	
1,2,3-Trichlorobenzene	ND	0.0050	11	"	11	11	"	"	
1,2,4-Trichlorobenzene	ND	0.0050	11	"	ii.	"	"	"	
1,1,2-Trichloroethane	ND	0.0050	"	ñs	ñ.	,,,			
1,1,1-Trichloroethane	ND	0.0050		"	or .	10		и	
Trichloroethene	ND	0.0050	10	"	n	11	ti .	II.	
Trichlorofluoromethane	ND	0.0050	30	n	11	11	n	11	
1,2,3-Trichloropropane	ND	0.0050	11	"	ñ	**	**	II.	
1,3,5-Trimethylbenzene	ND	0.0050	n		ų.	"	u	II.	
1,2,4-Trimethylbenzene	ND	0.0050	11	U	u u	"			
Vinyl chloride	ND	0.0050	n	0	0	w	u.	п	
Benzene	ND	0.0050	n	n	o l	"	n.	п	
Toluene	ND	0.0050	H	m.	n	"	ű.	п	
Ethylbenzene	ND	0.0050	11	ii.	ñ.	m.	n	11	
m,p-Xylene	ND	0.010	11		0	u	n		

SunStar Laboratories, Inc.





Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 12/30/16 14:30

#### B5-20

#### T163324-22 (Soil)

-		D							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar L	aboratorie	s, Inc.					
Volatile Organic Compounds by EPA	Method 8260B								
o-Xylene	ND	0.0050	mg/kg	1	6122823	12/28/16	12/29/16	EPA 8260B	
Tert-amyl methyl ether	ND	0.020	"	п	п	n .	п	W j	
Tert-butyl alcohol	ND	0.050	"			**	ii.	n.	
Di-isopropyl ether	ND	0.020	"	n n	u	"	n.	u.	
Ethyl tert-butyl ether	ND	0.020		II .	II .	"	n .	III.	
Methyl tert-butyl ether	ND	0.020	"	11	'n	•	п	n .	
Surrogate: 4-Bromofluorobenzene		102 %	81.2-1	123	"	"	"	"	
Surrogate: Dibromofluoromethane		130 %	95.7-1	135	"	"	"	"	
Surrogate: Toluene-d8		83.3 %	85.5-1	116	"	"	"	· ·	S-GC

SunStar Laboratories, Inc.

So



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750

Project Number: 16-174952.1

Reported:

San Francisco CA, 94111

Project Manager: Joe Mangine

12/30/16 14:30

#### **Extractable Petroleum Hydrocarbons by 8015C - Quality Control**

#### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6122827 - EPA 3550B GC										
Blank (6122827-BLK1)				Prepared &	Analyzed:	12/28/16			1 -95	
C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10								
C29-C40 (MORO)	ND	10	11							
Surrogate: p-Terphenyl	108		"	95.2	*	114	65-135			1 11 11
LCS (6122827-BS1)				Prepared &	Analyzed:	12/28/16				
C13-C28 (DRO)	510	10	mg/kg	521		97.5	75-125			
Surrogate: p-Terphenyl	99.5		"	104		95.5	65-135			
LCS Dup (6122827-BSD1)				Prepared &	Analyzed:	12/28/16				
C13-C28 (DRO)	490	10	mg/kg	495		99.3	75-125	3.31	20	
Surrogate: p-Terphenyl	92.4		"	99.0		93.3	65-135			

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 12/30/16 14:30

#### **Volatile Organic Compounds by EPA Method 8260B - Quality Control**

#### SunStar Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
D. J. (100000 FD) 5000 CCMC										

Blank (6122823-BLK1)				Prepared & Analyzed: 12/28/16
Bromobenzene	ND	0.0050	mg/kg	
Bromochloromethane	ND	0.0050	"	
Bromodichloromethane	ND	0.0050		
Bromoform	ND	0.0050	"	
Bromomethane	ND	0.0050	11	
n-Butylbenzene	ND	0.0050		
sec-Butylbenzene	ND	0.0050	n.	
tert-Butylbenzene	ND	0.0050	п	
Carbon tetrachloride	ND	0.0050		
Chlorobenzene	ND	0.0050	п	
Chloroethane	ND	0.0050	11	
Chloroform	ND	0.0050	n	
Chloromethane	ND	0.0050	11	
2-Chlorotoluene	ND	0.0050	91	
4-Chlorotoluene	ND	0.0050	"	
Dibromochloromethane	ND	0.0050	11	
1,2-Dibromo-3-chloropropane	ND	0.010	"	
1,2-Dibromoethane (EDB)	ND	0.0050	TI.	
Dibromomethane	ND	0.0050	11.	
1,2-Dichlorobenzene	ND	0.0050	"	
1,3-Dichlorobenzene	ND	0.0050	11	
1,4-Dichlorobenzene	ND	0.0050		
Dichlorodifluoromethane	ND	0.0050	11	
1,1-Dichloroethane	ND	0.0050		
1,2-Dichloroethane	ND	0.0050	"	
1,1-Dichloroethene	ND	0.0050	"	
cis-1,2-Dichloroethene	ND	0.0050		
trans-1,2-Dichloroethene	ND	0.0050	"	
1,2-Dichloropropane	ND	0.0050	11	
1,3-Dichloropropane	ND	0.0050	"	
2,2-Dichloropropane	ND	0.0050	11	
1,1-Dichloropropene	ND	0.0050	115	
cis-1,3-Dichloropropene	ND	0.0050	"	
trans-1,3-Dichloropropene	ND	0.0050	16	
Hexachlorobutadiene	ND	0.0050	"	
Isopropylbenzene	ND	0.0050	11	

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 12/30/16 14:30

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
		2					2		Ziiiii	1.000
Batch 6122823 - EPA 5030 GCMS				D 1.0	A 1 .	10/00/16				
Blank (6122823-BLK1)	ND	0.0050		Prepared &	Analyzed:	12/28/16				
p-Isopropyltoluene	ND	0.0050	mg/kg							
Methylene chloride	ND	0.0050								
Naphthalene	ND	0.0050	,,							
n-Propylbenzene	ND	0.0050								
Styrene	ND	0.0050								
1,1,2,2-Tetrachloroethane	ND	0.0050								
1,1,1,2-Tetrachloroethane	ND	0.0050								
Tetrachloroethene	ND	0.0050	"							
1,2,3-Trichlorobenzene	ND	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.0050								
1,1,2-Trichloroethane	ND	0.0050								
1,1,1-Trichloroethane	ND	0.0050								
Trichloroethene	ND	0.0050	"							
Trichlorofluoromethane	ND	0.0050	"							
1,2,3-Trichloropropane	ND	0.0050								
1,3,5-Trimethylbenzene	ND	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
Vinyl chloride	ND	0.0050	"							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	п							
o-Xylene	ND	0.0050	ıı							
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0396		105	81.2-123			
Surrogate: Dibromofluoromethane	0.0484		"	0.0396		122	95.7-135			
Surrogate: Toluene-d8	0.0322		"	0.0396		81.4	85.5-116			S-GO
LCS (6122823-BS1)				Prepared: 1	2/28/16 Ar	nalyzed: 12	/29/16			
Chlorobenzene	0.0804	0.0050	mg/kg	0.0994		80.9	75-125			
1,1-Dichloroethene	0.0755	0.0050	n .	0.0994		76.0	75-125			
Trichloroethene	0.107	0.0050	<u>u</u>	0.0994		108	75-125			
Benzene	0.0770	0.0050	11	0.0994		77.5	75-125			
Toluene	0.0874	0.0050	u	0.0994		87.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.0444		"	0.0398		112	81.2-123			
Surrogate: Dibromofluoromethane	0.0648		"	0.0398		163	95.7-135			S-GO
Surrogate: Toluene-d8	0.0352		"	0.0398		88.5	85.5-116			

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 12/30/16 14:30

### **Volatile Organic Compounds by EPA Method 8260B - Quality Control**

#### SunStar Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6122823 - EPA 5030 GCMS										
LCS Dup (6122823-BSD1)	120			Prepared: 1	12/28/16 Aı	nalyzed: 12	2/29/16			
Chlorobenzene	0.0842	0.0050	mg/kg	0.100		84.2	75-125	4.54	20	
1,1-Dichloroethene	0.0802	0.0050	17	0.100		80.2	75-125	6.10	20	
Trichloroethene	0.114	0.0050		0.100		114	75-125	6.27	20	
Benzene	0.0830	0.0050		0.100		83.0	75-125	7.45	20	
Toluene	0.0931	0.0050	II.	0.100		93.1	75-125	6.29	20	
Surrogate: 4-Bromofluorobenzene	0.0429		"	0.0400		107	81.2-123			
Surrogate: Dibromofluoromethane	0.0582		"	0.0400		145	95.7-135			S-GC
Surrogate: Toluene-d8	0.0342		"	0.0400		85.6	85.5-116			

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 12/30/16 14:30

#### **Notes and Definitions**

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

Return to client

Sample disposal Instructions: Disposal @ \$2.00 each

# Chain of Custody Record

SunStar Laboratories, Inc. 25712 Commercentre Dr Lake Forest, CA 92630 949-297-5020 Client: Porther Engineering & Science, Inc.
Address:

Soe Mangine

Project Manager:

Phone:

 Date:
 12 | 2 | 2016
 Page:
 0 | 2

 Project Name:
 5696 Stavens Creek Billud., San Jose. (A 9512

 Collector.
 8 | 21m
 Client Project #. 16-174952. 1

 Batch #:
 EDF #:
 EDF #:

otal # of containers	L	1							T.			Γ	Γ								
Comments/Presentative																Notes					
# Cl yourstook.	1 ;	200	03	8	8	90	5	200	9	5 5	=	5	2	10	10				4.1		7
									-							Total # of containers	ANN	Seals intact?/Y/N/NA	Received good condition/cold		far
the state of the s																conta	SIS	St.	ditior (	٠	10
1019			1.0				V					X	L		V	# of	Chain of Custody seals VININA	intac	d con		Turn around time: 5-0
PIOH	X	X		X	X	H	Λ	X	X	-	X	1	X	X	A	Tota	ristor	Seals	d goo	, ,	nd ti
3016M Ext./Carbon Chain/1pW.c	_	+	V	-	-		-	-	-	V	-	100			247		ofC		Seive		aron
3015M (diesel)	-	-		-	-			-	-	_			-		1 14		Chair		Rec		urn
(gasoline) M3108	-									-				_				Γ			ń
8021 BTEX	-							·	ľ							me	Ω	me		шe	
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8760 BTEX, OXY only			1-7														٩	Dat	١.	Dat	
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Container	Liner	-		-			-		-	٠					7	Received by: (signature)	Mercen .	y: (signature)	12.28.18 12.28.18	Received by: (signature)	,
Sample	Sort				-										>	Received b	3	Received by:	J.	Received b	
	12235 por	n:d 25:21	12247pm	licson	[ =20 poin	( 25tipin	2:24 mm	2.34 pin	2240 por	2250 pm	3- Worn	3:03 pin	3227 an	324024	3245 min	me ,	2/22/2016 102/20/m	me		ше	
Date Sampleo	9102 (2/2)							-		_						Date / Time	3 /2/ Z	Date / Time	,	Date / Time	
	[2]															Signature)	12	nature)	11:25	nature)	
Sample ID	81-5	81-18	81-15	81-20	B1-25	B1-30	5-28	82-16	82-18	見ている	\$2,28	85-28	83.5	13-16	183-15	Relineralished by: Asign	The state of the s	Religious and by: (signature)	650 12-2816	Relinquished by: (signature)	

Pickup

Return to client

Sample disposal Instructions: Disposal @ \$2.00 each

# Chain of Custody Record

SunStar Laboratories, Inc. 25712 Commercentre Dr Lake Forest, CA 92630 949-297-5020

Client: Partner Engineering & Scrence, Fax: Address: Phone:

Project Manager: See Mungane

Client Project #: /6~ CVERTING EDF# Project Name: 5696 Stellians Collector. B. Krun Batch #: Date:

			0 13																		
Fotal # of containers				-				Ŀ		I				I		Γ		ei.			
1. 1																					
Comments/Preservative																Notes				e e	
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				0 8	200	6	, ,	000	25.		+	-	L			Total # of containers	Chain of Custody seals Y/N/NA	Seals intact? Y/N/NA	Received good condition/cold   1/2		Turn around time: 5 - clery
white the state of	-	-	-	-	-	-	-	-	-	┝	+	+	┝	┝	-	, jo	eals	act?\	) anditi		N
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6010/7000 Title 22 Metals	-	22	1	12	1	1		^		-	╁	╁	H	H		Ĕ	Custo	Sea	og po	1	nu j
8015M Ext./Carbon Chain/1942	-	X		$\vdash$	H		X	1		-	+	t	H	-			n of (		ceive		aroi
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8260 BTEX, OXY only																Đate,	3	Date	,	Date	
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8560										L	L	L					7				
Container Type	インとのと	_	_						>							eived by: (signature)	Second	seived by: (signature)	1228-16	Received by: (signature)	
Sample Type	1205		7						4					41		Rec	E E	Received b	A. M.	Received b	ı
Date Sampled Time	12/21/2016 3252 pm	Hell pu	** 02= 17	16242 Mah	ililan	Mary 1971	1220g 30th	וזבוס שירו	12216,000							me	12/22 /2016 10:43r	me	÷	ше	
Sampleo	2016								\							Date / Time	Zib	Date / Time		Date / Time	
Date S	12/21									_							12			-	
sample ID	33-20	33-23	33-30	85-5	B5-10	85-15	F5-72	85-25	85-30							elinguished by: (signature)	THE THE PERSON NAMED IN COLUMN TO TH	Reinquished by: (signature)	650 12-28-16 11:25	Relinquished by: (signature)	

# SAMPLE RECEIVING REVIEW SHEET

Batch/Work Or	der#:	716333	24					* .
Client Name:			R - SF		Project:	5	296 STEVENS	CREEK BIND, SAN JOSE
Delivered by:		Client		ar Courier	<b> ☑ GSO</b>	FedEx	Oth	9512
If Courier, Recei	ived by:			· .	Date/Time Co Received:			
Lab Received by	 		YMMZ		Date/Time La Received:	ıb	12.28.16	1 11:25
Total number of	coolers re							(
Temperature: C	Cooler#1	4.3	C +/- the CF	(- 0.2°C)	= 4.1	°C correc	ted temperat	ure
Temperature: C	cooler #2	C	°C +/- the CF	(- 0.2°C)	=	°C correc	ted temperat	ure
Temperature: 0	Cooler #3		°C +/- the CF	(- 0.2°C)	= '	°C correc	ted temperat	ure
Temperature cr (no frozen conta		6°C		Within cri	iteria?	XYes	□No	
If NO:								
Samulas			3	[ ] x z	E E	$\square$ No $\rightarrow$		
Samples	received	on ice?		Yes			e Non-Co	nformance Sheet
	samples	on ice? received sa	me day		Acceptable	Complet □No →		nformance Sheet
If on ice,	, samples 1?	received sa	· · · · · · · · · · · · · · · · · · ·		Acceptable	Complet □No →		
If on ice, collected	, samples 1? act on coo	received sa	· · · · · · · · · · · · · · · · · · ·		Acceptable	Complet  ☐No →  Complet	e Non-Co	nformance Sheet
If on ice collected	samples 1? act on coors intact	received sa oler/sample	)		Acceptable	Complet  □No →  Complet  X Yes	e Non-Co	nformance Sheet
If on ice collected Custody seals int Sample container	samples ? ract on coors intact atch Chair	received sa oler/sample	y IDs		Acceptable	Complet □No → Complet  X Yes  X Yes	No*	nformance Sheet
If on ice collected Custody seals int Sample container Sample labels ma	samples 1? Tact on coors intact Tatch Chair containers	oler/sample of Custod s received n	y IDs natch COC	Yes →	Acceptable	Complet  No → Complet  Yes  Yes	No*	nformance Sheet
If on ice collected Custody seals int Sample container Sample labels ma	samples ? act on coo rs intact atch Chair containers s received	oler/sample of Custod s received n for analyse	y IDs natch COC es requested o	Yes →		Complet  No → Complet  Yes  Yes  Yes  Yes	No*	nformance Sheet
If on ice collected Custody seals int Sample container Sample labels ma Total number of	samples ? act on coo rs intact atch Chair containers s received ent receive	oler/sample of Custod s received n for analyse ted on COC	y IDs natch COC es requested of containers for	Yes →  On COC  or analyses  ch correct ter	requested mperatures,	Complet  No → Complet  Yes  Yes  Yes  Yes  Yes  Yes	No*	nformance Sheet □N/A
If on ice, collected Custody seals int Sample container Sample labels ma Total number of Proper containers Proper preservati Complete shipme containers, labels	samples ? act on coo rs intact atch Chair containers s received eve indicate ent receive s, volumes	oler/sample of Custod s received in for analyse ted on COC ed in good of s preservative	y IDs natch COC es requested of containers for condition with ves and within	on COC or analyses h correct ter n method sp	requested mperatures,	Complet  No → Complet  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y	No*   No*	nformance Sheet □N/A
If on ice, collected Custody seals int Sample container Sample labels ma Total number of Proper containers Proper preservati Complete shipmer containers, labels holding times	samples ? act on coo rs intact atch Chair containers s received eve indicate ent receive s, volumes	oler/sample of Custod s received in for analyse ted on COC ed in good of s preservative	y IDs natch COC es requested of containers for condition with ves and within	on COC or analyses h correct ter n method sp	requested mperatures, pecified	Complet  No → Complet  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y	No*   No*	nformance Sheet □N/A
If on ice, collected Custody seals int Sample container Sample labels ma Total number of Proper containers Proper preservati Complete shipme containers, labels holding times * Complete Non-C	samples ? act on coo rs intact atch Chair containers s received eve indicate ent receive s, volumes	oler/sample of Custod s received in for analyse ted on COC ed in good of s preservative	y IDs natch COC es requested of containers for condition with ves and within	on COC or analyses h correct ter n method sp	requested mperatures, pecified	Complet  No → Complet  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Y	No*   No*	nformance Sheet □N/A

Printed: 12/29/2016 10:40:18AM



#### WORK ORDER

#### T163324

Client: Partner Engineering & Science, Inc.--San Francisc

Project Manager:

Lisa Nguyen

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

**Project Number:** 

16-174952.1

Report To:

Partner Engineering & Science, Inc.--San Francisco

Joe Mangine

111 Pine St. Suite 1750 San Francisco, CA 94111

Date Due:

01/03/17 17:00 (3 day TAT)

Received By:

Sunny Lounethone

Date Received:

12/28/16 11:25

Logged In By:

Sunny Lounethone

Date Logged In:

12/28/16 12:31

Samples Received at:

Preservation Confin

4.1°C

Custody Seals Yes Received On Ice

Containers Intact Yes COC/Labels Agree Yes

Analysis

Due

TAT

**Expires** 

Comments

T163324-01 B1-5 [Soil] Sampled 12/21/16 12:35 (GMT-08:00) Pacific Time (US

[NO ANALYSES]

T163324-02 B1-10 [Soil] Sampled 12/21/16 12:42 (GMT-08:00) Pacific Time (US

[NO ANALYSES]

T163324-03 B1-15 [Soil] Sampled 12/21/16 12:47 (GMT-08:00) Pacific Time (US

8015 Carbon Chain

01/03/17 15:00

01/04/17 12:47 3

8260

01/03/17 15:00

3 01/04/17 12:47

+OXY

T163324-04 B1-20 [Soil] Sampled 12/21/16 13:05 (GMT-08:00) Pacific Time (US

[NO ANALYSES]

T163324-05 B1-25 [Soil] Sampled 12/21/16 13:20 (GMT-08:00) Pacific Time (US

[NO ANALYSES]

T163324-06 B1-30 [Soil] Sampled 12/21/16 13:54 (GMT-08:00) Pacific Time (US

&

8015 Carbon Chain

01/03/17 15:00

3 01/04/17 13:54

8260

01/03/17 15:00

3 01/04/17 13:54 +OXY

Printed: 12/29/2016 10:40:18AM



&

[NO ANALYSES]

#### WORK ORDER

#### T163324

Client: Partner Engineering & Science, Inc.--San Francisc **Project Manager:** Lisa Nguyen Project: 5696 Stevens Creek Blvd, San Jose, CA 95129 **Project Number:** 16-174952.1 Analysis Due **TAT Expires** Comments T163324-07 B2-5 [Soil] Sampled 12/21/16 14:24 (GMT-08:00) Pacific Time (US [NO ANALYSES] T163324-08 B2-10 [Soil] Sampled 12/21/16 14:34 (GMT-08:00) Pacific Time (US [NO ANALYSES] T163324-09 B2-15 [Soil] Sampled 12/21/16 14:40 (GMT-08:00) Pacific Time (US [NO ANALYSES] T163324-10 B2-20 [Soil] Sampled 12/21/16 14:50 (GMT-08:00) Pacific Time (US 8015 Carbon Chain 01/03/17 15:00 3 01/04/17 14:50 8260 01/03/17 15:00 3 01/04/17 14:50 +OXY T163324-11 B2-25 [Soil] Sampled 12/21/16 15:00 (GMT-08:00) Pacific Time (US [NO ANALYSES] T163324-12 B2-30 [Soil] Sampled 12/21/16 15:03 (GMT-08:00) Pacific Time (US [NO ANALYSES] T163324-13 B3-5 [Soil] Sampled 12/21/16 15:27 (GMT-08:00) Pacific Time (US [NO ANALYSES] T163324-14 B3-10 [Soil] Sampled 12/21/16 15:40 (GMT-08:00) Pacific Time (US [NO ANALYSES] T163324-15 B3-15 [Soil] Sampled 12/21/16 15:45 (GMT-08:00) Pacific Time (US [NO ANALYSES] T163324-16 B3-20 [Soil] Sampled 12/21/16 15:52 (GMT-08:00) Pacific Time (US





#### WORK ORDER

T163324

Client: Partner Engineering & Science, Inc.--San Francisc Project Manager: Lisa Nguyen Project: 5696 Stevens Creek Blvd, San Jose, CA 95129 **Project Number:** 16-174952.1 Analysis TAT Due **Expires Comments** T163324-17 B3-25 [Soil] Sampled 12/21/16 16:12 (GMT-08:00) Pacific Time (US 8015 Carbon Chain 01/03/17 15:00 01/04/17 16:12 3 8260 01/03/17 15:00 3 01/04/17 16:12 +OXY T163324-18 B3-30 [Soil] Sampled 12/21/16 16:20 (GMT-08:00) Pacific Time (US [NO ANALYSES] T163324-19 B5-5 [Soil] Sampled 12/21/16 10:42 (GMT-08:00) Pacific Time (US [NO ANALYSES] T163324-20 B5-10 [Soil] Sampled 12/21/16 11:19 (GMT-08:00) Pacific Time (US [NO ANALYSES] T163324-21 B5-15 [Soil] Sampled 12/21/16 11:24 (GMT-08:00) Pacific Time (US [NO ANALYSES] T163324-22 B5-20 [Soil] Sampled 12/21/16 12:08 (GMT-08:00) Pacific Time (US 8015 Carbon Chain 01/03/17 15:00 3 01/04/17 12:08 8260 01/03/17 15:00 3 01/04/17 12:08 +OXY T163324-23 B5-25 [Soil] Sampled 12/21/16 12:10 (GMT-08:00) Pacific Time (US [NO ANALYSES] T163324-24 B5-30 [Soil] Sampled 12/21/16 12:16 (GMT-08:00) Pacific Time (US [NO ANALYSES]

Re	viewed	1 By



05 January 2017

Joe Mangine
Partner Engineering & Science, Inc.--San Francisco
111 Pine St. Suite 1750
San Francisco, CA 94111

RE: 5696 Stevens Creek Blvd, San Jose, CA 95129

Enclosed are the results of analyses for samples received by the laboratory on 12/28/16 11:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Nguyen

Project Manager Assistant



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 01/05/17 16:47

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	ν.	Date Sampled	Date Received
B1 - SG5	T163340-01	Air		12/21/16 10:58	12/28/16 11:25
B2 - SG5	T163340-02	Air		12/21/16 11:11	12/28/16 11:25
B3 - SG5	T163340-03	Air		12/21/16 11:39	12/28/16 11:25
B4 - SG5	T163340-04	Air		12/21/16 12:01	12/28/16 11:25
B5 - SG5	T163340-05	Air		12/21/16 12:31	12/28/16 11:25

SunStar Laboratories, Inc.

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Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported:

01/05/17 16:47

#### **DETECTIONS SUMMARY**

Sample ID: B1 - SG5	Labora	atory ID:	T163340-01		
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Trichloroethene	770	270	ug/m³ Air	TO-15	TO-14
Sample ID: B2 - SG5	Labora	atory ID:	T163340-02		
<del></del>		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Trichloroethene	1200	270	ug/m³ Air	TO-15	TO-14
Sample ID: B3 - SG5	Labora	atory ID:	T163340-03		
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Acetone	170	12	ug/m³ Air	TO-15	
Carbon Disulfide	15	3.2	ug/m³ Air	TO-15	
Bromodichloromethane	16	6.8	ug/m³ Air	TO-15	
Cyclohexane	120	3.5	ug/m³ Air	TO-15	
Heptane	450	4.2	ug/m³ Air	TO-15	
Hexane	940	3.6	ug/m³ Air	TO-15	
Tetrahydrofuran	8.7	3.0	ug/m³ Air	TO-15	
1,2,4-Trimethylbenzene	12	5.0	ug/m³ Air	TO-15	
2-Butanone (MEK)	34	15	ug/m³ Air	TO-15	
Benzene	54	3.3	ug/m³ Air	TO-15	
Toluene	140	3.8	ug/m³ Air	TO-15	
Ethylbenzene	9,9	4.4	ug/m³ Air	TO-15	
m,p-Xylene	57	8.8	ug/m³ Air	TO-15	
o-Xylene	13	4.4	ug/m³ Air	TO-15	
Sample ID: B4 - SG5	Labora	atory ID:	T163340-04		
	Lubore	Reporting	2 2000 10:01		
Analyte	Result	Limit	Units	Method	Notes
Cyclohexane	390	170	ug/m³ Air	TO-15	TO-14
Heptane	810	210	ug/m³ Air	TO-15	TO-14

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750

Project Number: 16-174952.1

Reported:

San Francisco CA, 94111

Project Manager: Joe Mangine

01/05/17 16:47

Sample ID:	B4 - SG5	Laborat	tory ID:	T163340-04	8	
			Reporting			
Analyte		Result	Limit	Units	Method	Notes
Hexane		1700	180	ug/m³ Air	TO-15	TO-14
Toluene		230	190	ug/m³ Air	TO-15	TO-14
Sample ID:	B5 - SG5	Laborat	tory ID:	T163340-05		
Sample ID:	B5 - SG5	Laborat	tory ID:	T163340-05		
Sample ID: Analyte	B5 - SG5	Laborat Result		T163340-05 Units	Method	Notes
•			Reporting		Method TO-15	
Analyte		Result	Reporting Limit	Units		Notes TO-14 TO-14

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1

Reported:

Project Manager: Joe Mangine 01/05/17 16:47

# B1 - SG5 T163340-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar I	∟aboratorie	es, Inc.					
TO-15									
Acetone	ND	120	ug/m³ Air	1.55	6122925	12/29/16	12/29/16	TO-15	TO-14
1,3-Butadiene	ND	110	11	"		**	u u	"	TO-14
Carbon Disulfide	ND	160	u.		11	**	III	10	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	. "	•	u.		ш	"	TO-14
Isopropyl alcohol	ND	130	II.	•	•	11.	11	"	TO-14
Bromodichloromethane	ND	340	II.		•	II.	II	"	TO-14
Bromoform	ND	530	ii .	"	. "		u.		TO-14
Bromomethane	ND	200	"		"	n .	"		TO-14
Carbon tetrachloride	ND	320	u u	"	0	n	11	и	TO-14
Chlorobenzene	ND	230	TI .	n	0.5	11	11	n .	TO-14
Chloroethane	ND	130	. "	11	ii i	n	"	Ti .	TO-14
Chloroform	ND	250	II .	D	ñ	"	"		TO-14
Chloromethane	ND	110	"	0	U	n	"		TO-14
Cyclohexane	ND	170	U	0	0.1	"	"	n	TO-14
Heptane	ND	210	11	0	n I	"	"	п	TO-14
Hexane	ND	180	11	0	n	"	"	"	TO-14
Dibromochloromethane	ND	430	Ü	"	u)	"	"	n n	TO-14
1,2-Dibromoethane (EDB)	ND	390	u u	"	u	"	"	u	TO-14
1,2-Dichlorobenzene	ND	310	11	0	n .	".	"	11	TO-14
1,3-Dichlorobenzene	ND	310	u	n	ii.	"	11	Ti .	TO-14
1,4-Dichlorobenzene	ND	310	11	"	u u	"	п		TO-14
Dichlorodifluoromethane	ND	250	11	"			II.		TO-14
1,1-Dichloroethane	ND	210	11	"		"	ш		TO-14
1,2-Dichloroethane	ND	210	11	"	0.	u.	ii.	w	TO-14
1,1-Dichloroethene	ND	200	п		Ü	11	II	W	TO-14
cis-1,2-Dichloroethene	ND	200	11	u.	"	u.	"		TO-14
trans-1,2-Dichloroethene	ND	200	n		"	n.	n.		TO-14
1,2-Dichloropropane	ND	240	11	"	"	"		"	TO-14
cis-1,3-Dichloropropene	ND	230	11	0	"	ii.	11	"	TO-14
trans-1,3-Dichloropropene	ND	230	"	ıű		iii	11	ii .	TO-14
4-Ethyltoluene	ND	250	"	30	u.	и.	11	11	TO-14

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 01/05/17 16:47

B1 - SG5 T163340-01 (Air)

		100,471,010	0.00 (	<u> </u>					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
Methylene chloride	ND	180	ug/m³ Air	1.55	6122925	12/29/16	12/29/16	TO-15	TO-14
Styrene	ND	220	11	**	"	11	ш	n .	TO-14
1,1,2,2-Tetrachloroethane	ND	350	II.	"	"	"	"	<u>u</u> .	TO-14
Tetrahydrofuran	ND	150	11			"	u u	n ·	TO-14
Tetrachloroethene	ND	350	11		u.			u ·	TO-14
1,1,2-Trichloroethane	ND	280	U.		. 11	n.		m!	TO-14
1,1,1-Trichloroethane	ND	280	11	m.		ii .	'n		TO-14
Trichloroethene	770	270	II		"	"			TO-14
Trichlorofluoromethane	ND	290	II	n		u u	u u		TO-14
1,3,5-Trimethylbenzene	ND	250	11	n	11	u.	n .	· ·	TO-14
1,2,4-Trimethylbenzene	ND	250	11	n	ш	n.	u	n	TO-14
Vinyl acetate	ND	180	11	n		u.	ü	n	TO-14
Vinyl chloride	ND	130	III.	11		īī.	ii.	n	TO-14
1,4-Dioxane	ND	180	II		11.	"	11	n	TO-14
2-Butanone (MEK)	ND	150	II .	11	u.	"	n		TO-14
Methyl isobutyl ketone	ND	210	"		n.	"	"		TO-14
Benzene	ND	160	11	"	u.	"	"	n	TO-14
Toluene	ND	190	TE.		**	"	,"	.01	TO-14
Ethylbenzene	ND	220	ii:		,,	и	m .	11	TO-14
m,p-Xylene	ND	220	u.	<u>u</u>		II.	II	11	TO-14
o-Xylene	ND	220	n .	m .	m.	m .	ii	11	TO-14
(*)									(B)(B) (B) (B)

SunStar Laboratories, Inc.

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Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 01/05/17 16:47

## B2 - SG5 T163340-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
<u>TO-15</u>								0	
Acetone	ND	120	ug/m³ Air	3.05	6122925	12/29/16	12/29/16	TO-15	TO-14
1,3-Butadiene	ND	110	"	11	**	11	11	II	TO-14
Carbon Disulfide	ND	160	u.	11	"	п	"	n	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"	"	,,	"	"	H.	TO-14
Isopropyl alcohol	ND	130	Î		10		.0	0	TO-14
Bromodichloromethane	ND	340	11.	m .	11	n n	TI .		TO-14
Bromoform	ND	530	II.	ш	11	n	n	"	TO-14
Bromomethane	ND	200	m!	11		n	ii		TO-14
Carbon tetrachloride	ND	320	u u	11	"				TO-14
Chlorobenzene	ND	230	ii.	"				10	TO-14
Chloroethane	ND	130	<u>.</u> <u>u</u>	"	11	11		n	TO-14
Chloroform	ND	250	II.	ī	II	n	11	10	TO-14
Chloromethane	ND	110	TT.	ii .	II.		,u		TO-14
Cyclohexane	ND	170	11	п	111		n		TO-14
Heptane	ND	210	"	n	H.	111	11		TO-14
Hexane	ND	180	u	TI.		11	11	in .	TO-14
Dibromochloromethane	ND	430	"	n	11	II .	II .	n	TO-14
1,2-Dibromoethane (EDB)	ND	390	"	n	"		"	n	TO-14
1,2-Dichlorobenzene	ND	310	II .		u.	ш	"	n .	TO-14
1,3-Dichlorobenzene	ND	310	II.		п	III		n	TO-14
1,4-Dichlorobenzene	ND	310	11	"	n.	u.	10	n	TO-14
Dichlorodifluoromethane	ND	250	11	II.	n.	n.	II.	"	TO-14
1,1-Dichloroethane	ND	210	11	n	II .	"	"	v	TO-14
1,2-Dichloroethane	ND	210	W.	U	"	"	11		TO-14
1,1-Dichloroethene	ND	200	u .	n.	"	"	11	n	TO-14
cis-1,2-Dichloroethene	ND	200	"	W.	•	II.	II.	'n	TO-14
trans-1,2-Dichloroethene	ND	200	11	"	"	~ ii	ï	11	TO-14
1,2-Dichloropropane	ND	240	11	,,	y.	n.	"	n .	TO-14
cis-1,3-Dichloropropene	ND	230	п	"	0.1		и.	n .	TO-14
trans-1,3-Dichloropropene	ND	230	11	u		n .	u.	n .	TO-14
4-Ethyltoluene	ND	250	TI .	II.	n .	. "	n	n	TO-14

SunStar Laboratories, Inc.

PA



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported:

01/05/17 16:47

B2 - SG5 T163340-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar 1	Laboratori	es, Inc.					
TO-15									
Methylene chloride	ND	180	ug/m³ Air	3.05	6122925	12/29/16	12/29/16	TO-15	TO-14
Styrene	ND	220	11.		11	"	II .	"	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"		"	n	TI .	n	TO-14
Tetrahydrofuran	ND	150		"	"	'n	11	11	TO-14
Tetrachloroethene	ND	350	H.	III	11	n	11	и	TO-14
1,1,2-Trichloroethane	ND	280	Ü	ji.	,,,			11	TO-14
1,1,1-Trichloroethane	ND	280	Ü	W.	11	"	II.	10	TO-14
Trichloroethene	1200	270	II.	u.		11	II .	TI .	TO-14
Trichlorofluoromethane	ND	290	11	u	115			n .	TO-14
1,3,5-Trimethylbenzene	ND	250	n	п	u	Ti.	n .		TO-14
1,2,4-Trimethylbenzene	ND	250	TT.	III.	11	W.	"	11	TO-14
Vinyl acetate	ND	180	Ü	ji.			<u>II</u>	21	TO-14
Vinyl chloride	ND	130	11	"	100		11	11	TO-14
1,4-Dioxane	ND	180	U		10	m.	11	II .	TO-14
2-Butanone (MEK)	ND	150	11	u	11	11	"		TO-14
Methyl isobutyl ketone	ND	210	"	11	**	n.		n .	TO-14
Benzene	ND	160	ï		<u>u</u> :	"	ii.	n.	TO-14
Toluene	ND	190	"	"	01	10	ii .	n	TO-14
Ethylbenzene	ND	220	u u	u l	0	n		U	TO-14
m,p-Xylene	ND	220		п	o	n	"	n	TO-14
o-Xylene	ND	220	10	n.	Ü.	ñ.	ii.	115	TO-14

SunStar Laboratories, Inc.

PA



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 01/05/17 16:47

# B3 - SG5 T163340-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar I	Laboratorio	es, Inc.					
TO-15									
Acetone	170	12	ug/m³ Air	2.16	6122925	12/29/16	12/30/16	TO-15	
1,3-Butadiene	ND	4.5	II.	"	n			ü	
Carbon Disulfide	15	3.2	11		"	"		"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	117	"	n .	"	<u>j</u> i	"	
Isopropyl alcohol	ND	13	11		"	"			
Bromodichloromethane	16	6.8	11	u		"		10	
Bromoform	ND	11	11	"		"	"	"	
Bromomethane	ND	4.0	U	10	п	11.	"	ıı .	
Carbon tetrachloride	ND	6.4	U	,111	n	11	"	п	
Chlorobenzene	ND	4.7	11		n	11	n	II .	
Chloroethane	ND	2.7	11	ш	11	"	"	"	
Chloroform	, ND	5.0	u	ш			п	"	
Chloromethane	ND	11	ш	п	11		п		
Cyclohexane	120	3.5	п	u	**	n	n	и	
Heptane	450	4.2	10	Œ	11	п	11	и	
Hexane	940	3.6	Ü	11	11	n	11	n	
Dibromochloromethane	ND	8.7	II .			11	91	п	
1,2-Dibromoethane (EDB)	ND	7.8	"	U		n	W	п	
1,2-Dichlorobenzene	ND	6.1		11	II .	11	11	п	
1,3-Dichlorobenzene	ND	6.1	"	"	10	n		ш	
1,4-Dichlorobenzene	ND	6.1			0	11.	115		
Dichlorodifluoromethane	ND	5.0	"		11	11	ш	TI .	
1,1-Dichloroethane	ND	4.1	ıı	iii	11	"	п	Ti .	
1,2-Dichloroethane	ND	4.1	n	ñ	"	"	ii .	"	
1,1-Dichloroethene	ND	4.0	II	u	"	n.	11		
cis-1,2-Dichloroethene	ND	4.0	11	ŭ,	"	11		u.	
trans-1,2-Dichloroethene	ND	4.0		11		11	u	n .	
1,2-Dichloropropane	ND	4.7	11	u	0	11.	11	n	
cis-1,3-Dichloropropene	ND	4.6	n	ï.	ñ	n.		ji.	
trans-1,3-Dichloropropene	ND	4.6	n	"		11	**	11	
4-Ethyltoluene	ND	5.0	u	"	m .	11	m .	11	
Methylene chloride	ND	3.5	11	"	n l	H.	ш	u.	

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 01/05/17 16:47

B3 - SG5

T162240 02	(A: A)
T163340-03	AIII

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar I	Laboratorio	es, Inc.					
TO-15									
Styrene	ND	4.3	ug/m³ Air	2.16	6122925	12/29/16	12/30/16	TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	11			"		u.	
Tetrahydrofuran	8.7	3.0	"	11	11	n n			
Tetrachloroethene	ND	6.9	"	m.	11	п		II.	
1,1,2-Trichloroethane	ND	5.6	11	11	п	п	n n	TI.	
1,1,1-Trichloroethane	ND	5.6	11	n	, T	n	n	ű.	
Trichloroethene	ND	5.5	II .	11	"	**	"	"	
Trichlorofluoromethane	ND	5.7	n		"	"	п	u.	
1,3,5-Trimethylbenzene	ND	5.0	11	"	11.		п	"	
1,2,4-Trimethylbenzene	12	5.0	U		11	**	n	n	
Vinyl acetate	ND	3.6	īī.	"	11		n	"	
Vinyl chloride	ND	2.6	11	"	n .	n.	"	U	
1,4-Dioxane	ND	18	ū	n		n.	,	· ·	
2-Butanone (MEK)	34	15	Ti .		11.	115		"	
Methyl isobutyl ketone	ND	42	11	'n	n	9	"	u.	
Benzene	54	3.3	11	n	n .	n	n		
Toluene	140	3.8	ij	"	n	11	п	n	
Ethylbenzene	9.9	4.4	II	"			ш	'n	
m,p-Xylene	57	8.8	11	"	U	<u> 11</u>	<u>n</u>	u u	
o-Xylene	13	4.4	11	**	11	11	n	11	
Surrogate: 4-Bromofluorobenzene		75.7 %	40-1	60	"	"	"	"	

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 01/05/17 16:47

### B4 - SG5 T163340-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar I	Laboratorio	es, Inc.					
<u>TO-15</u>									
Acetone	ND	120	ug/m³ Air	2.75	6122925	12/29/16	12/29/16	TO-15	TO-14
1,3-Butadiene	ND	110	11	11	11	11	"		TO-14
Carbon Disulfide	ND	160	11	"	11		u.	U	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"	п	"		"	"	TO-14
Isopropyl alcohol	ND	130	11.	31	"		u		TO-14
Bromodichloromethane	ND	340	ш				n	Ü.	TO-14
Bromoform	ND	530	TI .	**		11	ű	ii.	TO-14
Bromomethane	ND	200	11	"			"	"	TO-14
Carbon tetrachloride	ND	320	11	"			11	m <sup>c</sup>	TO-14
Chlorobenzene	ND	230	11	и.	ii .	11	"	"	TO-14
Chloroethane	ND	130	"	11	n	11		"	TO-14
Chloroform	ND	250	"	"	"	11		u u	TO-14
Chloromethane	ND	110	"		11	"	"	"	TO-14
Cyclohexane	390	170	"	н	ш	11		"	TO-14
Heptane	810	210	"	п	11	11	II .	"	TO-14
Hexane	1700	180	"	n.		"	n n		TO-14
Dibromochloromethane	ND	430	"	"	n.		II .		TO-14
1,2-Dibromoethane (EDB)	ND	390	"	"	11	11	u u	u	TO-14
1,2-Dichlorobenzene	ND	310	II.	"	11.	11	30	30	TO-14
1,3-Dichlorobenzene	ND	310	II	"	11.	n	iii	n	TO-14
1,4-Dichlorobenzene	ND	310	II .	"	ii.	"	"	u.	TO-14
Dichlorodifluoromethane	ND	250	11	"	"		"	u	TO-14
1,1-Dichloroethane	ND	210	"		11.	"	ш	30	TO-14
1,2-Dichloroethane	ND	210	ш	n .	11	11	п		TO-14
1,1-Dichloroethene	ND	200	, II.	"	ii .		n		TO-14
cis-1,2-Dichloroethene	ND	200	TT.	n	11.	u.	11	11	TO-14
trans-1,2-Dichloroethene	ND	200	11	0	11	m .	п	u u	TO-14
1,2-Dichloropropane	ND	240	u.	n	11"	TI .	n	11	TO-14
cis-1,3-Dichloropropene	ND	230	n.	11	11	п	ii	11	TO-14
trans-1,3-Dichloropropene	ND	230	TE.	11	11	ïï	Ti .	п	TO-14
4-Ethyltoluene	ND	250	"		u	11.	20	n .	TO-14

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111

Project Number: 16-174952.1 Project Manager: Joe Mangine Reported:

01/05/17 16:47

### B4 - SG5 T163340-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar I	Laboratorie	es, Inc.					
TO-15									
Methylene chloride	ND	180	ug/m³ Air	2.75	6122925	12/29/16	12/29/16	TO-15	TO-14
Styrene	ND	220	11			.11	**	"	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"	**			"	11"	TO-14
Tetrahydrofuran	ND	150	"		n	n	**		TO-14
Tetrachloroethene	ND	350	"	11	11	11	"	"	TO-14
1,1,2-Trichloroethane	ND	280	**	"	n	"	n n	Ü	TO-14
1,1,1-Trichloroethane	ND	280	II .	"	· u	"	п	"	TO-14
Trichloroethene	ND	270	II .	"	п	"	п	"	TO-14
Trichlorofluoromethane	ND	290	11	11	30	"	п		TO-14
1,3,5-Trimethylbenzene	ND	250	11	n	11	11	n	n	TO-14
1,2,4-Trimethylbenzene	ND	250	11	n		n,	п	n	TO-14
Vinyl acetate	ND	180	n n	311	11		п		TO-14
Vinyl chloride	ND	130	ш	311	10	11	11	0	TO-14
1,4-Dioxane	ND	180	11	31	"	11	ii.	n	TO-14
2-Butanone (MEK)	ND	150	Ti .	"		п	"	ũ	TO-14
Methyl isobutyl ketone	ND	210	n .	"	"		,,	n	TO-14
Benzene	ND	160	u u	"	"	"	"	n	TO-14
Toluene	230	190	11	n	11	w			TO-14
Ethylbenzene	ND	220	11	п	11	"	n .	II .	TO-14
m,p-Xylene	ND	220	ш	п	n	"	"	,,,	TO-14
o-Xylene	ND	220	11	"	Ti .		"	"	TO-14

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported:

Project Manager. Joe Mangh

01/05/17 16:47

### B5 - SG5 T163340-05 (Air)

	-	Reporting			No.				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar I	Laboratorio	es, Inc.					
TO-15									
Acetone	ND	120	ug/m³ Air	2.42	6122925	12/29/16	12/29/16	TO-15	TO-14
1,3-Butadiene	ND	110		"	II .	n.	II .	II .	TO-14
Carbon Disulfide	ND	160	W.	"	n n	H.	и	n	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"	"	11	п	п	"	TO-14
Isopropyl alcohol	ND	130	III.	11	"	11	п	11	TO-14
Bromodichloromethane	ND	340	"	"		п	**	"	TO-14
Bromoform	ND	530		"		11		31	TO-14
Bromomethane	ND	200	115	"	11	n	n .	u	TO-14
Carbon tetrachloride	ND	320	u.	11	m.	11	"	"	TO-14
Chlorobenzene	ND	230	iii.	11				"	TO-14
Chloroethane	ND	130	<u>u</u>	TI.		11.	"	11	TO-14
Chloroform	ND	250	u.	11	111	"	"	п	TO-14
Chloromethane	ND	110	u u	'n	п	"	"	īi	TO-14
Cyclohexane	310	170	11	n	11	11.	11	п	TO-14
Heptane	730	210	Œ	11	11	m.	н	TI .	TO-14
Hexane	1400	180	Î	n	III	"	11		TO-14
Dibromochloromethane	ND	430	11	"	11	"	п	"	TO-14
1,2-Dibromoethane (EDB)	ND	390	11	n	11	11	II .	11	TO-14
1,2-Dichlorobenzene	ND	310	n	"		"	п	"	TO-14
1,3-Dichlorobenzene	ND	310	"	"		н	н	."	TO-14
1,4-Dichlorobenzene	ND	310	m .	"		11	п		TO-14
Dichlorodifluoromethane	ND	250	11	u.	u.	n.	п	"	TO-14
1,1-Dichloroethane	ND	210	II.	Ti.	iii	"	11	"	TO-14
1,2-Dichloroethane	ND	210	"		"	п			TO-14
1,1-Dichloroethene	ND	200	U	TI.		11	ж		TO-14
cis-1,2-Dichloroethene	ND	200	u u	п	116	n.	90	11	TO-14
trans-1,2-Dichloroethene	ND	200	U	ii .	m	"	n	п	TO-14
1,2-Dichloropropane	ND	240	n n	II.	11	11	11	II .	TO-14
cis-1,3-Dichloropropene	ND	230	"	ш	11	**		п	TO-14
trans-1,3-Dichloropropene	ND	230	u	п	11	11		п	TO-14
4-Ethyltoluene	ND	250	11	n	m.	n	п	п	TO-14

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750

Project Number: 16-174952.1

Reported:

San Francisco CA, 94111

Project Manager: Joe Mangine

01/05/17 16:47

### B5 - SG5 T163340-05 (Air)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar I	Laboratorie	es, Inc.					
TO-15									
Methylene chloride	ND	180	ug/m³ Air	2.42	6122925	12/29/16	12/29/16	TO-15	TO-14
Styrene	ND	220	11	"	и	.0		W.	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	,,	u.	<u>u</u>	TO-14
Tetrahydrofuran	ND	150	u						TO-14
Tetrachloroethene	ND	350		n	и	w.	II .	"	TO-14
1,1,2-Trichloroethane	ND	280	"	п	nt.	ш	II	n	TO-14
1,1,1-Trichloroethane	ND	280	и	п		II	11	n	TO-14
Trichloroethene	ND	270	"	<u>n</u>		11	11	n	TO-14
Trichlorofluoromethane	ND	290	. "	311	11	111	30	10	TO-14
1,3,5-Trimethylbenzene	ND	250	ш	"	n	"	"	in .	TO-14
1,2,4-Trimethylbenzene	ND	250	11.	"	11	"	n	"	TO-14
Vinyl acetate	ND	180	11	"	11	"	ii .	"	TO-14
Vinyl chloride	ND	130	11			ш			TO-14
1,4-Dioxane	ND	180	11	п	11	11	10	10	TO-14
2-Butanone (MEK)	ND	150	11	и	n	11	11	10	TO-14
Methyl isobutyl ketone	ND	210	11	11	11	11	ii	11	TO-14
Benzene	ND	160	11	"		11	"		TO-14
Toluene	ND	190	"	"		"	"	u	TO-14
Ethylbenzene	ND	220	11	**	11	"	II.	11	TO-14
m,p-Xylene	ND	220	11	"		"	ш	'n	TO-14
o-Xylene	ND	220	H.	"	11	n	11	"	TO-14

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported:

01/05/17 16:47

### **TO-15 - Quality Control**

### SunStar Laboratories, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch	0122925 -	Canister	Analysis

Blank (6122925-BLK1)				Prepared: 12/29/16 Analyzed: 12/30/16	F I
Acetone	ND	12	ug/m³ Air	N	
1,3-Butadiene	ND	4.5			
Carbon Disulfide	ND	3.2	"		
1,1,2-trichloro-1,2,2-trifluoroethane (CFC	ND	7.7	"		
113)					
Isopropyl alcohol	ND	13			
Bromodichloromethane	ND	6.8	"		
Bromoform	ND	11	"		
Bromomethane	ND	4.0	W.		
Carbon tetrachloride	ND	6.4	ti		
Chlorobenzene	ND	4.7	"		
Chloroethane	ND	2.7	"		
Chloroform	ND	5.0	"		
Chloromethane	ND	11	"		
Cyclohexane	ND	3.5			
Heptane	ND	4.2	"		
Hexane	ND	3.6	u.		
Dibromochloromethane	ND	8.7			
1,2-Dibromoethane (EDB)	ND	7.8			
1,2-Dichlorobenzene	ND	6.1			
1,3-Dichlorobenzene	ND	6.1	W.		
1,4-Dichlorobenzene	ND	6.1			
Dichlorodifluoromethane	ND	5.0	11		
1,1-Dichloroethane	ND	4.1	u.		
1,2-Dichloroethane	ND	4.1	"		
1,1-Dichloroethene	ND	4.0			
cis-1,2-Dichloroethene	ND	4.0	"		
trans-1,2-Dichloroethene	ND	4.0			
1,2-Dichloropropane	ND	4.7			
cis-1,3-Dichloropropene	ND	4.6			
trans-1,3-Dichloropropene	ND	4.6			
4-Ethyltoluene	ND	5.0			
Methylene chloride	ND	3.5			
Styrene	ND	4.3			
1,1,2,2-Tetrachloroethane	ND	7.0			
Tetrahydrofuran	ND	3.0	w		

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

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111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 01/05/17 16:47

### TO-15 - Quality Control

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6122925 - Canister Analysis								1	4	
Blank (6122925-BLK1)				Prepared: 1	12/29/16 Aı	nalyzed: 12	/30/16			
Tetrachloroethene	ND	6.9	ug/m³ Air							
1,1,2-Trichloroethane	ND	5.6	11							
1,1,1-Trichloroethane	ND	5.6	11							
Trichloroethene	ND	5.5	TI.							
Trichlorofluoromethane	ND	5.7	11							
1,3,5-Trimethylbenzene	ND	5.0	11							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl acetate	ND	3.6	"							
Vinyl chloride	ND	2.6	"							
1,4-Dioxane	ND	18								
2-Butanone (MEK)	ND	15	11							
Methyl isobutyl ketone	ND '	42	п							
Surrogate: 4-Bromofluorobenzene	36.7		"	45.3		81.1	40-160			
Duplicate (6122925-DUP1)	Sou	rce: T163337-	-01	Prepared: 1	2/29/16 Ar	nalyzed: 12	/30/16			
Acetone	68.6	12	ug/m³ Air		68.6			0.00	30	
1,3-Butadiene	ND	4.5	n		ND				30	
Carbon Disulfide	ND	3.2	n		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	m.		ND				30	
Isopropyl alcohol	ND	13	9		ND				30	
Bromodichloromethane	ND	6.8	11		ND				30	
Bromoform	ND	11			ND				30	
Bromomethane	ND	4.0			ND				30	
Carbon tetrachloride	ND	6.4			ND				30	
Chlorobenzene	ND	4.7	m.		ND				30	
Chloroethane	ND	2.7			ND				30	
Chloroform	ND	5.0	U		ND				30	
Chloromethane	ND	11	ñ		ND				30	
Cyclohexane	ND	3.5			ND				30	
Heptane	ND	4.2	ñ.		ND				30	
Hexane	ND	3.6	n.		ND				30	
Dibromochloromethane	ND	8.7			ND				30	
1,2-Dibromoethane (EDB)	ND	7.8	ii.		ND				30	
1,2-Dichlorobenzene	ND	6.1	n		ND				30	

SunStar Laboratories, Inc.



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported: 01/05/17 16:47

### **TO-15 - Quality Control**

### SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6122925 - Canister Analysis		. *								

Duplicate (6122925-DUP1)	Source	: T163337-01		Prepared: 12/29/16 Analyzed: 1	12/30/16	
1,4-Dichlorobenzene	ND	6.1 ug	g/m³ Air	ND		30
Dichlorodifluoromethane	ND	5.0	"	ND		30
1,1-Dichloroethane	ND	4.1		ND		30
1,2-Dichloroethane	ND	4.1	,0	ND		30
1,1-Dichloroethene	ND	4.0		ND		30
cis-1,2-Dichloroethene	5.13	4.0		5.31	3.31	30
trans-1,2-Dichloroethene	ND	4.0	**	ND		30
1,2-Dichloropropane	ND	4.7	и	ND		30
cis-1,3-Dichloropropene	ND	4.6		ND		30
trans-1,3-Dichloropropene	ND	4.6		ND		30
4-Ethyltoluene	ND	5.0		ND		30
Methylene chloride	ND	3.5	"	ND		30
Styrene	ND	4.3		ND		30
1,1,2,2-Tetrachloroethane	ND	7.0		ND		30
Tetrahydrofuran	ND	3.0	"	ND		30
Tetrachloroethene	21.6	6.9		22.6	4.46	30
1,1,2-Trichloroethane	ND	5.6		ND		30
1,1,1-Trichloroethane	ND	5.6		ND		30
Trichloroethene	358	5.5		370	3.22	30
Trichlorofluoromethane	ND	5.7	"	ND		30
1,3,5-Trimethylbenzene	ND	5.0	11	ND		30
1,2,4-Trimethylbenzene	ND	5.0		ND		30
Vinyl acetate	ND	3.6	**	ND		30
Vinyl chloride	ND	2.6		ND		30
1,4-Dioxane	ND	18	"	ND		30
2-Butanone (MEK)	ND	15		ND		30
Methyl isobutyl ketone	ND	42	11	ND		30
Surrogate: 4-Bromofluorobenzene	35.0		"	45.3 77.4	40-160	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Lisa Nguyen, Project Manager Assistant



Partner Engineering & Science, Inc.--San Francisco

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

111 Pine St. Suite 1750 San Francisco CA, 94111 Project Number: 16-174952.1 Project Manager: Joe Mangine Reported:

01/05/17 16:47

### **Notes and Definitions**

TO-14 TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

Pas

## AIR LABORATORY

**Chain of Custody Record** 

Address:

client: Partnew Engineering & Science, Inc-

	_			15	-		_			_		_		_	_	_	_		_	<del>-</del>	
	natur	650 12:	Refinquished by: (signature)	A STATE OF THE PARTY OF THE PAR	Relinguished by (Signature)		4300						100 to 10			135 - SES	B4-565	13-50-5	132-565	B1-565	Sample ID
	Date	12-28-16 1	Date	122/201	Date			ja			.:					+		-		12/21/2016 (05/56074) 11:05/04	Date Start Sampled Time
	Date / Time	1125	Date / Time	10:40	Date / Time	2										123/02	12261 pm	11239000	1211 ass	CESEaM	Start
	Receive	1	Receive	- CM 3	Receive	* ·						7				12 258 m	2261 mg 12224 84	11259um 11256um	11211 am 11=32=		Finish Time
	Received by: (signature)	1	Received by: (signature)	Steve	Received by: (signature)				2 1							+				50216100	Sample Type: Soil Gas / Indoor
		-21 2-	, -	1-12-1/2016 103-10th CAL HUMBER 12/22/16 10+0	nature) Da				7							e				Summa	Container Type: Summa Can /
	Date / Time	12-28-16 1125	Date / Time	TO 01/	Date / Time											25-	-20	-78	-26	+2-	Initial Pressure
Turn around time: 5 - day	,			Chain of Custody seals N/NA												2	21	10	116	20	Final
roun		Received good condition/cold	1	of C									1.								TO-14
d tim		good	Seals intact? (Y)N/NA	stod	Total				-		-	L	L		L		1			1	TO-14
N		con	intac	ysea	Total # of containers	-			L	_	-	-		H	<u> </u>	X	Ϋ́	X	X	X	TO-15 <b>/ VO C'S</b> 8015m Methane
2		dition.	Q	8	conta	+	-		H	-	-			H	H	╁	H	-	H	$\vdash$	8015m Gasoline
3	·	cold	ANNA	ĀNĀ	iners	H	$\vdash$	-		H	<u> </u>	H	100			╁	H	+	+	-	Fixed Gases by TCD
		1	Γ		Γ			-	H		-	T			H	T	t	T	t	T	
			1		1																Summa (
e .			2	¥i	Notes												κ,				Summa Can # / Comments
					·											16	Po	03	07	00	ਲੋ Laboratory ID #

SunStar Laboratories, Inc.

Project Name: 5696 Stowars Croek Blud Collector: À 949-297-5020 PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE 25712 Commercentre Drive, Lake Forest, CA 92630 12016 Client Project #: 15-174957.

\*TO-15 SIM analysis available upon prior notification. (Precertified Summa cans needed)

Effective Date: 01/01/2016

SunStar Laboratories Inc. 25712 Commercentre Dr. Lake Forest, CA 92630

(949)297-5020 (949)297-5027 fax (530)304-5525 Bill Hannell

7163346

PLEASE DO NOT WRITE ON OR PLACE LABELS ON SUMMA

CANS

# SunStar Laboratories

PROJECT: #16-174952.1

## Canister Data Sheet

			Sample Sample	Start Time Finish Time	10:58 am 11:05 am	17-11 cm 11-32 cm	11-39 cm 11-58 cm	12:01 pm 12-24 pm	12-31 pm 12-58 pm										
2			Final Sa	Pressure Star	2- 10:	-16 1121	110 11	-15 12	-13 15										
2			Initial	Pressure	+2-	62-	278	62-	52-										
010			Sample	Date	12/20/12/21				>										
million Data Dicor	N K12-14-16_9+2	Sampling Information	Sample	ED	B1-SG5	595-28	13-545	B4-562	R5-5675		PURGE CAN	PURGE CAN	NITROGEN FILLED	MANIFOLD (150)	MANIFOLD (150)		· ·		
	BRIAN K. 1		Pressure	(-30 +/- 2 psia)	-30	-30	-30	130	-30	30	-30	-30	30			3			
	PARTNER ESI		CHECK		12/14/2016	12/14/2016	12/14/2016	12/14/2016	12/14/2016	12/14/2016	12/14/2016	12/14/2016	12/14/2016	12/14/2016	12/14/2016				
	PF	oo i temao		# [eine		0450	0631	. 0642	0751	0763	6200	0356	. 0351	2046	2067				
	Client:	O'L' Table of Tab	Sulpping intolmactor	Serial	E a w	- E400	SSAT:	• П422	SSAT	E A S	. F400	FERNO	TASS.	SSAT:	SSAT				

### SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #:	T1633	40		å ·		
Client Name: '		ESI - SF	Project:	_5	1916 Stevens	Creek Blud, Sandose,
Delivered by:	Client	] SunStar Courier	⊠ GSO	☐ FedEx	Other	95129
If Courier, Received by:			Date/Time C Received:	1011 2		
Lab Received by:	Dc	×	Date/Time L Received:	ab	12/28/16	1125
Total number of coolers re	eceived:					
Temperature: Cooler #1	- °C+/	- the CF (- 0.2°C)	= -	°C correct	ed temperature	
Temperature: Cooler #2	°C+/	- the CF (- 0.2°C)	=	°C correct	ed temperature	
Temperature: Cooler #3	°C +/	- the CF (- 0.2°C)	=	°C correct	ed temperature	
Temperature criteria = < (no frozen containers)	≤6°C	Within or	riteria?	Yes	□No .	
If NO:		0.4			. 13	
Samples received	on ice?	Yes		□No → Complete	e Non-Confo	ormance Sheet
If on ice, samples collected?	received same d	ay ∐Yes →	Acceptable	□No → Complet	e Non-Confo	ormance Sheet
Custody seals intact on co						
	ooler/sample			Yes	□No*	XN/A
Sample containers intact	ooler/sample		AND AND	∏Yes	∐No* ☐	XN/A
Sample containers intact Sample labels match Chair		S				<b>⊠</b> N/A
•	in of Custody ID			Yes	□No*	<b>⊠</b> N/A
Sample labels match Chair	in of Custody ID	n COC		Yes Yes	□No*	<b>⊠</b> N/A
Sample labels match Chair Total number of container	in of Custody ID rs received match d for analyses re	n COC quested on COC	s requested	Yes Yes Yes	□No* □No* □No* □No*	<b>X</b> N/A
Sample labels match Chair Total number of container Proper containers received	in of Custody ID as received match d for analyses re ated on COC/conved in good cond	n COC quested on COC ntainers for analyse lition with correct t and within method	emperatures, specified	Yes Yes Yes Yes Yes Yes Yes	□No* □No* □No* □No* □No* □No* □No*	X]n/A
Sample labels match Chair Total number of container Proper containers received Proper preservative indica Complete shipment receive containers, labels, volume	in of Custody ID as received match d for analyses re ated on COC/con ved in good conc es preservatives	n COC quested on COC ntainers for analyse lition with correct t and within method	emperatures,	Yes Yes Yes Yes Yes Yes Yes	□No* □No* □No* □No* □No* □No* □No*	X]n/A
Sample labels match Chair Total number of container Proper containers received Proper preservative indicates Complete shipment receive containers, labels, volume holding times	in of Custody ID as received match d for analyses re ated on COC/con ved in good conc es preservatives	n COC quested on COC ntainers for analyse lition with correct t and within method	emperatures, specified	Yes Yes Yes Yes Yes Yes Yes	□No* □No* □No* □No* □No* □No* □No*	X]n/A



T163340

Project Name: #16-1	74952.1			
Company: PARTNE	R ESI	Name:	BRIAN KIN	
		Phone:	415-680-89	53
ltem -		Quantity		-Unit
2 oz Jars 24/CS	- 33 1-2		i i i	
4 oz Jars 24/CS				
8 oz Jars 12/CS			t t	
40 ml unpreserved VC	DAs 100/box			
40 ml HCL-preserved	VOAs 72/box		1	
250 ml Poly 24/CS	. 00 120 16		1. 1	
1 Liter Poly 12/CS	1 - 1			
500 ml Poly 16/CS			in the second	
500 ml Amber Bottle				
1 Liter Amber Bottle	12/CS			
1 Gallon Poly 4/box			ÿ	
5035 kits:(2)Sodium E	Bisulfate VOAs 72/box			
	(1) Methanol VOA 72/box		v ·	
	(1)Syringe 50/pack		i.	· E itt i mare I:
Lock-N-Load Handle	1/pack			
Tedlar Bags 10/pack		51 •		• • • • • • • • • • • • • • • • • • • •
Manifold, Inst. Sampl	er, Variable Sampler	2-MANIFOLDS	(150)	CHARGE FOR 1
Sub Slab Insert w/ wa	sher & N/F			
Soil Gas SS 16" Drop	Tubes			
Gas Extraction Fitting	js .			
Soil Gas Filters	// I I I I I I I I I I I I I I I I I I		9 9	
		# SENT	USED	UNUSED
	400cc		9 4	
Batch Certified	1L	9 (2-P, 1-N)	.7 (2-P)	2 (1-N)
Summa Canisters	3L			era Maria. La secare labor
	6L		M	
	400cc			
Individually	1L	- je -		
Certified Summa	3L			
Canisters	6L		Mary Conf	
Cooler (Small, Medium,	Large) Number & Quantity		i i	
Swagelok Fittings: No		6-NUTS/FERR	ULES	CHARGE FOR 5
Other: Poly Tube, Valv			, i	
	,		· (:	
			f.	
		1.	, , , , , , , , , , , , , , , , , , ,	
Prepared By SUNI	NY STATEMENT	Date: 12-14	116	
Reviewed By:	$ \frac{1}{2} \left( \frac{1}{2} \right) $	Date:		

### Asset Check-In Receipt

Check-In Date: 12/28/2016

### 71633:40

User Name: Martinez, Aaron

SunStar Laboratories Inc.

Customer Name Brian Kim Partner-Brian K. Customer No. Sunstar Labs, Lake Forest Air Sunstar Labs, SunStar Labs -Sunstar Labs, Tustin Air Lab Sunstar Labs, SunStar Labs -Location South South Lab Serial No 0319 6200 0356 0450 0763 2046 2067 0351 0751 Vapor Manifold: Vapor Manifold Vapor Manifold: Vapor Manifold 1000cc: 1000cc Summa Asset Type 0351 N (unuce) 0763 (NOT USED) 0356 P (use) 757 Asset Tag 6200 0319 0450 0751 2046 2067 631 642

Printed: 12/29/2016 10:42:03AM



### WORK ORDER

### T163340

Client: Partner Engineering & Science, Inc.--San Francisc

Project: 5696 Stevens Creek Blvd, San Jose, CA 95129

**Project Manager:** 

Lisa Nguyen

**Project Number:** 

16-174952.1

Report To:

Partner Engineering & Science, Inc.--San Francisco

Joe Mangine

111 Pine St. Suite 1750

San Francisco, CA 94111

Date Due:

01/05/17 17:00 (5 day TAT)

Received By:

Dan Marteski

Date Received:

12/28/16 11:25

Logged In By:

Aaron Martinez

Date Logged In:

12/28/16 17:45

Samples Received at:

Custody Seals N

No

Received On Ice

No

Containers Intact Yes
COC/Labels Agree Yes
Preservation Confin No

Analysis	Due	TAT	Expires	Comments
T163340-01 B1 - SG5 (US &	[Air] Sampled 12/21/16 10	:58 (GMT-	-08:00) Pacific Time	
TO-15	01/05/17 15:00	5	01/20/17 10:58	
T163340-02 B2 - SG5 (US &	[Air] Sampled 12/21/16 11	:11 (GMT-	08:00) Pacific Time	
TO-15	01/05/17 15:00	5	01/20/17 11:11	
T163340-03 B3 - SG5 (US &	[Air] Sampled 12/21/16 11	:39 (GMT-	08:00) Pacific Time	
TO-15	01/05/17 15:00	5	01/20/17 11:39	
T163340-04 B4 - SG5 (US &	[Air] Sampled 12/21/16 12	:01 (GMT-	-08:00) Pacific Time	
TO-15	01/05/17 15:00	5	01/20/17 12:01	
T163340-05 B5 - SG5 (US &	[Air] Sampled 12/21/16 12	:31 (GMT-	-08:00) Pacific Time	
TO-15	01/05/17 15:00	5	01/20/17 12:31	

Daviarrad	D.,
Reviewed	ДУ